

2

AMPLIFIERS

2

PREAMPLIFIERS

AB SYSTEMS

The Nine Twelve Mixer Preamp

Features two-channel mike mixing on program or tape outputs; two-way tape dubbing with tape 1 and



2 and source and third-source monitor switch; input selector; external EQ switch; loudness and auto mute switches; timer delay output relay. Frequency response 5-100,000 Hz ± 0.25 dB; rated output 4.0 V rms; THD and IM dist. 0.01%; S/N -84 dB (A); input sensitivity 2-10 mV (phono), -60 dBm (mic, dual balanced low- or high-impedance inputs), 250 mV (high level); phono overload 250 mV; tape monitor impedance 10k ohms; 1 7/8" H \times 19" W \times 9" D..... \$525

ACCUPHASE

C-200 Stereo Preamp

Frequency response 20-20,000 Hz $+0/-0.2$ dB (high level), 20-20,000 Hz ± 2 dB (low level); 0.5% dist. at rated output; hum and noise -74 dB (10 mV phono input); sensitivity variable over 2-6 mV (phono), 200 mV (aux.); high- and low-cut filters; built-in headphone amplifier; tape monitor/copy facilities; mike inputs on front panel; 6" H \times 17 1/2" W \times 14" D..... \$700
AWC-1. Walnut case..... \$50

ACE AUDIO

3000 Stereo Preamp

2 V rated output into 10,000-ohm load, 8 V (max.); gain 20 dB (high-level inputs), 60 dB (phono input); phono overload 90 mV; frequency response 20-20,000 Hz ± 0.1 dB, -1 dB at 1 and 75,000 Hz; harmonic and IM dist. 0.02% max.; hum and noise 90 dB below 0.8 V input (high level), 73 dB below 8 mV input (phono); RIAA phono equalization ± 0.5 dB; input impedance 33,000 ohms (high level), 47,000 ohms (phono); output impedance 470 ohms; outputs: main, tapes 1 and 2; inputs: phono, tuner, aux., and tapes 1 and 2; volume and balance controls; three ac outlets (1000 W max.), one switched, two unswitched; 120- or 240-V ac, 5 W; 2 3/4" H \times 14 1/2" W \times 7" D..... \$250
Kit..... \$156
3100. Similar to 3000 but uses external power supply..... \$325

Basic Stereo Preamp

High-level inputs (FM, aux. 1 and 2); sensitivity 0.1

V for 1 V output; input impedance 41,000 ohms at full volume, 50,000 ohms at -20 dB setting; output impedance 100 ohms; harmonic and IM dist. 0.05% at 2 V output; frequency response 20-20,000 Hz ± 0.1 dB; hum and noise 85 dB below 0.5 V input; output 10 V into 15,000 ohms. Phono input: sensitivity 2.2 mV for 1 V output; input impedance 47,000 ohms; harmonic dist. 0.05% (midband); RIAA equalization ± 0.5 dB; hum and noise 70 dB below 10 mV input; overload 250 mV. Inputs: RIAA phono, FM, aux. 1 and 2, and tape monitor; outputs: main, tape; four ac outlets (three switched). 117-V ac (220-V models available, \$5 additional), 5 W..... \$168
BSPW High. Similar to BSP but +6 dB gain on all inputs..... \$175

ADC

B-100 Stereo Preamp

Tube preamp with built-in moving-coil head amp; input sensitivity 0.5 mV (phono), 0.05 V (high level); phono input capacitance 50-430 pF; phono input impedance 25-100 ohms; phono overload 375 mV; frequency response 5-200,000 Hz ± 0.1 dB; THD and IM dist. 0.09%; S/N 70 dB (phono) .. \$1195

AGI

511A Stereo Preamp

Features bi-amplified phono stage; dual feedback system with electrolytic coupler and separate ac



feedback loop; no filters or tone controls; front-panel input select buttons, one-way tape dubbing with two-deck monitor switches, mono switch, and tone send selector (controls external processor loop for equalizers and other signal processors). Gain 33.0 dB ± 0.25 dB at 1000 Hz (phono), 18.9 dB ± 0.25 dB (high level), 40.1 dB ± 0.25 dB at 1000 Hz (Option H high gain phono); input impedance 47k ohms (phono), 38k ohms (high level); phono overload at 1000 Hz 160 mV (phono), 70 mV (Option H high gain phono); max. output (into 10,000 ohms) 7 V (phono), 9.5 V (high level); output impedance 220 ohms at rec out (phono), 47 ohms (high level); hum and noise below 10 mV at 1000 Hz -88 dB (phono, A weighted), -80 dB (phono, unweighted), -106 dB below full output from 20-20,000 Hz (high level, unweighted); frequency response ± 0.25 dB (RIAA phono), 20-20,000 Hz ± 0.1 dB (high level); slew rate 250 V/ μ sec (phono), 50 V/ μ sec (high level); rise time at 2 V

peak-to-peak 0.01 μ sec max. (phono), 0.25 μ sec max. (high-level); THD and IM dist. 0.005%; Option G (gold-finish panel and knobs) and Option H (high-gain phono stage) are available at no extra cost but must be requested at time of purchase of 511A; 5 1/2" H \times 14" W \times 10" D..... \$495
Option F. High or low 12 dB/octave Butterworth filter at -3 dB user-specified frequency..... \$50
Oak hardwood cabinet for 511A..... \$70
Walnut hardwood cabinet for 511A..... \$75

AIWA

SA-C22U Mini Stereo Preamp

Features differential circuit with dual positive and negative power supplies; defeatable bass and treble



controls; low filter; mode and -20-dB muting switches; source/tape monitor switch; loudness switch; balance control; input selectors with LEDs. Input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/47k ohms (tuner, aux., tape); RIAA deviation ± 0.2 dB from 20-20,000 Hz; S/N 80 dB (phono), 85 dB (tuner and aux.); 2 1/8" H \times 8 3/16" W \times 6 7/16" D..... \$140

APT

Holman Preamp

Features dc phono preamp with FET/bipolar differential pair-input configuration; optional plug-in preamp for moving-coil cartridges; three-tape deck input selector switch with two tape monitor loops and dubbing switches; 32-step attenuator volume control; variable mode control and balance control; tone defeat switch; high filter switchable between 40,000 and 8000 Hz (12 dB/octave rolloff); treble and bass controls; headphone amplifier output;



front-panel mute control. THD at rated output 0.01%, IM dist. 0.01% (SMPTE), TIM dist. 0.006%; frequency response 20-20,000 Hz ± 0.5 dB; input sensitivity/impedance 5 mV rms/47,000, 100,000 ohms (phono 1 and 2), 320 mV rms/50,000 ohms (high level); 2.0 V rms output level; phono overload 150 mV rms at 1000 Hz, line input overload 10 V rms at 1000 Hz; gain 36.5 dB (phono to tape), 18 dB (high level to main); S/N ("A" weighted) 80 dB below input reference level of 10 mV rms at 1000 Hz (phono 1 and 2), 106 dB V (line). 3.12" H \times 15.04" W \times 8.19" D..... \$502

AUDIO RESEARCH

SP-6A Stereo Preamp

Features segmented 2-dB gain control; front-panel mute switch; rear-panel gain range switch (-10 dB); separate on/off switch; indicator for three amp power receptacles. Max. input 700 mV at 1000 Hz (magnetic phono); input impedance 50,000 ohms (all inputs); output impedance 500 ohms at 1000 Hz (all outputs); rated output (IHF) 5 V rms from 20-30,000 Hz (all outputs), 60 V rms at 1000 Hz into 100,000-ohm load at 1.0% THD (main out); S/N 90 dB below 1 V rms input; frequency response 10-30,000 Hz ± 0.25 dB (high level), RIAA phono deviation ± 0.25 dB from 30-15,000 Hz; HD less than 0.03% at 5 V rms out (IHF); IM dist. less than 0.008% at 5 V rms out (IHF SMPTE); gain 34 dB (magnetic phono in to tape out), 60 dB (magnetic phono in to main out), 0 dB (high level in to tape out), 26 dB (high level in to main out). 5 $\frac{1}{4}$ " H \times 19" W \times 10 $\frac{1}{4}$ " D \$1195
WC-4. Walnut-finished wood cabinet for SP-6A. \$100

SP-4A Stereo Preamp

Features provisions for alternate compensation of magnetic phono sections; shielded power supply and head amp sections; main output turn-on delay; gold-contact switching controls. Frequency response 1-100,000 Hz $+0/-3$ dB; 2 V rated output (10 V overload); 0.005% THD and IM dist. at rated output; S/N 84 dB (phono, 10 mV input); sensitivity 0.1 V (high level), 2 mV (phono); phono overload 300 mV; tape impedance/output 2000 ohms/0.5 V. 3 $\frac{1}{2}$ " H \times 19" W \times 8 $\frac{1}{2}$ " D \$1195
WC-2. Walnut finished wood cabinet for SP-4A. \$90

SP-5 Stereo Preamp

Frequency response 1-100,000 Hz $+0/-3$ dB; 2 V rated output (10 V overload); 0.005% THD and IM dist. at rated output; S/N 80 dB (phono, 10 mV input); sensitivity 0.1 V (high level), 2 mV (phono); phono overload 300 mV; tape impedance/output 2000 ohms/0.5 V; 3 $\frac{1}{2}$ " H \times 19" W \times 8 $\frac{1}{2}$ " D. \$895
WC-2. Walnut finished wood cabinet for SP-5 ... \$90

AUDIO SCIENTIFIC by SUPEREX

Two-Section Stereo Preamp

Dual-section Class A stereo preamplifier features independently housed power supply; variable phono capacitance loading; frequency response 5-100,000 Hz ± 0.5 dB; dist. 0.001%; S/N 110 dB (A weighted) \$350

AUDIRE

Diffet 1A Preamp

Features three switch positions for moving-coil cartridge: standard (47,000 ohms and 0 dB), medium-

gain (40 ohms and +6 dB), and low-gain (500 or 47,000 ohms and +12 dB). Magnetic phono: RIAA ± 0.25 dB from 20-20,000 Hz; phono overload 175 mV at 1000 Hz; HD 0.005% at 20 Hz and 0.008% at 20,000 Hz; output 15 V rms; gain 38.5 dB at 1000 Hz; S/N 93 dB. High level: frequency response 0-100,000 Hz $+0/-0.25$ dB; THD 0.005% at 3 V rms out; IM dist 0.001%; S/N 90 dB at 3 V rms out; gain 23 dB. Inputs: magnetic phono, tuner, aux., tape 1/2; outputs: two tape and two main; two switched and two unswitched ac outlets; volume, balance, short-wave selector, and short-wave power controls. 4 $\frac{3}{4}$ " H \times 19" W \times 7" D.

..... \$577
Diffet 1. Similar to Diffet 1A minus provisions for moving-coil cartridges \$522

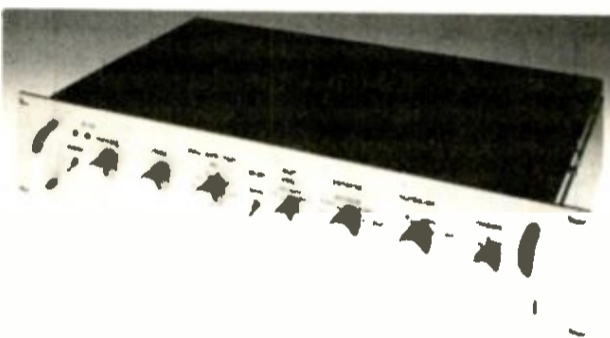
Legato Preamp

Features 18 dB/octave subsonic filter; two-way tape dubbing with copy/source record and tape/source monitor switches; input selector with separate phono 1/phono 2 selector. Frequency response ± 0.25 dB from 20-20,000 Hz (phono RIAA), 0-100,000 Hz $+0/-0.25$ dB (high level); HD 0.005% at 3 V rms; S/N 90 dB; phono overload 150 mV at 1000 Hz; gain 38.5 dB (phono), 19.5 dB (high level); 1.75" H \times 19" W \times 7" D \$330

BERNING by PRECEDENT

TF-10 Stereo Preamp

Features hybrid vacuum tube and transistor amplification circuitry; passive network phono equalization; power supply energy storage; direct coupling



and servo systems; tape output buffers; electronic mute control for remote-control muting; high-level, gain level, and balance controls; two-way tape dubbing with monitor select switch for all inputs; input selector with separate three-phono input switch. Frequency response ± 0.25 dB from 20-20,000 Hz (phono RIAA, passive), 10-100,000 Hz $+0/-1$ dB (high level); noise -68 dB unweighted for 1 V out; THD and IM dist. 0.5%; gain 37 dB (phono MM), 24 dB (high level); input impedance 47k ohms (phono MM), 100k ohms (high level); output impedance 2k ohms; max. output 8 V into 10k ohms; phono overload 130 mV at 1000 Hz; 3 $\frac{1}{2}$ " H \times 19" W \times 12" D \$1395

BGW

Model 203 Stereo Control Center

Gain 42 dB (phono to tape out, 1 kHz), 22 dB and 10 dB (high level to line out) with high-low gain switch set to high and low, respectively; frequency response 20-20,000 Hz ± 0.2 dB (high level), ± 0.25 dB of RIAA (phono); input impedance 47,000 ohms (phono), 90,000 ohms (high level); input overload 100 mV (phono, 1000 Hz), 10 V (high level); max. output 8 V rms into 600 ohms (line), 10 V rms into 5000 ohms (phono at tape out), 4 V rms into 5000 ohms (rated output); THD 0.01%; subsonic and scratch filters; front-panel tape copy and headphone jacks; provisions for remote MC preamp and ac power switching; active bass and treble tone circuitry; equalizer in/out jacks; 5 $\frac{1}{4}$ " H \times 19" W \times 11 $\frac{3}{4}$ " D \$719
 Cabinet \$41

Model 103 Stereo Preamp

Gain 40 dB at 1000 Hz (phono to tape out), 24 dB (high level to line out); input impedance 47,000 ohms (phono), 90,000 ohms (high level); input overload 120 mV at 1000 Hz (phono), 4.5 V (high

level); 100-dB dynamic range (phono); max. output voltage 8 V rms into 600 ohms (line out), 10 V rms into 5000 ohms (phono at tape out); THD less than 0.01% at rated output; noise -90 dB below rated output (high level to line out); frequency response 20-20,000 Hz ± 0.25 dB (high level and phono RIAA). Features all-discrete circuitry; three-pole (18 dB/octave) subsonic filter; separate bass and treble tone controls equalized at ± 15 dB at 50 and 15,000 Hz; front-panel defeat switch for removal of tone controls; four high-level inputs (tuner, aux., tape 1 and 2, equalizer phono); one switched and two unswitched ac outlets; full facilities for interfacing with two tape machines; 3 $\frac{1}{2}$ " H \times 19" W \times 10 $\frac{1}{2}$ " D \$439
 Cabinet \$41

BOZAK

919 Mixer/Preamp

Designed to be used with the 929 power amplifier; features bass, treble, and midrange equalization; high and low filters; bass turnovers at 200 and 400 Hz; treble turnovers at 2000 and 4000 Hz; three simultaneous inputs with individual level controls (phono, mike, choice of tape, tuner, or aux.); separate bass, midrange, and treble controls for each channel; cue selector for monitoring each input separately; mode selector for stereo, reverse stereo, stereo blend, or stereo plus; response (RIAA phono equalization) 30-15,000 Hz ± 0.5 dB; has full complement of inputs, outputs, and operating controls; matte black panel; optional walnut veneer enclosure extra \$875

909 Preamp

Features plug-in circuits; all-silicon circuitry; active filters; flat or equalized switchable tape outputs; inputs: phono 1 and 2, tuner, aux., tape monitor 1 and 2; controls: bass and treble for each channel, balance, volume, lo/hi filters, EQ defeat, stereo/mono, tape dubbing; frequency response 20-20,000 Hz ± 0.25 dB; dist. 0.1% IM and harmonic; S/N (unweighted) 80 dB (phono), 90 dB (high level); 12 V output into 600 ohms \$490

CARVER

C-4000 Stereo Preamp

Features sonic audio hologram generator designed to recreate vector sound field present during original



recording and to locate musical instruments precisely in space; built-in three-channel time delay system with 25-W amp and user-selectable 60/80 msec initial delay and five primary delays; third-generation audio-correlator noise-reduction system and peak unlimiter; separate left and right bass and treble controls with turnover frequency switches and tone defeat; cartridge matching; two-way tape dubbing and monitoring; external signal processor input; infrasonic filter. Frequency response ± 0.25 dB from 20-20,000 Hz (phono RIAA), 5-200,000 Hz -1 dB (high level); input sensitivity 0.85 mV (phono), 50 mV (high level); phono overload 150 mV at 1000 Hz; phono gain 35 dB. Noise reduction 20 dB from 2500-20,000 Hz, 10 dB from 200-20,000 Hz. Sonic hologram image resolution 5° arc in horizontal plane, 20° arc in vertical plane. Peak unlimiter total dynamic range recovery 6 dB. Time delay: delay time 85 msec max.; dist. 0.2%; bandwidth 20-10,000 Hz, feed forward to 19,000 Hz. 6 $\frac{1}{4}$ " H \times 19" W \times 8" D \$867

ABOUT PRICES. . . .

With repeal of Fair Trade Laws, manufacturers are now providing "Suggested Retail" or "Fair Retail Value" figures for the guidance of their dealers and customers. Prices in this Directory are those provided by the manufacturers under these conditions.

CONRAD-JOHNSON

Vacuum Tube Stereo Preamp/Plifier

Features low-noise metal film resistors and polyester and mica capacitors in audio circuitry and vacuum tube design; two-deck tape monitoring with one-way dubbing; input selector for two phonos, tuner, tape, and aux.; mode control switch; two amplifier outputs. Frequency response 2-100,000 (bandpass), ± 0.25 dB from 20-20,000 Hz (phono RIAA); S/N 70 dB below 10 mV in (phono), 84 dB below 2.5 V out (high level); THD and IM dist. 0.05%; gain 35 dB (phono), 28 dB (high level); max. output 25 V; phono overload 500 mV at 1000 Hz; 4 $\frac{3}{4}$ " H x 14" W x 11 $\frac{1}{4}$ " D \$585

CROWN

DL-2 Control Center/Preamp/Plifier

Three-piece stereo control preamp consisting of switching module with all controls, power supply, and phono module A (phono preamp stage for placement at turntable). Switching Module: features digital control-setting displays, digital interface for wireless remote control system, and eight dual-channel touch-button selectable inputs, including two for external signal processors and one mixable input. Specifications: frequency response into 10,000 ohms from 10-50,000 Hz ± 0.1 dB and 1-100,000 Hz ± 0.5 dB; 2.5 V rated output, 11 V rms max. before overload; phase response into 10,000 ohms from 20-20,000 Hz ± 8 dB; hum and noise below rated output 97 max. (unweighted), 101 max. (A weighted); IM dist. 0.0003% max. below 10-V output; THD with 10,000-ohm load at rated output 0.0003% max. at 1000 Hz, 0.0008% max. from 20-20,000 Hz; input gain/impedance 20 dB ± 0.2 dB/100k ohms; output impedance 50 ohms; three-circuit, $\frac{1}{4}$ -in headphone jack with 1-ohm min. impedance, 17 V rms max. output, and frequency response from 10-50,000 Hz ± 0.1 dB at rated output; 63.5 dB dynamic range gain on seven-segment LED displays; frequency adjust controls set at 20, 40, 80, 400, 800, 1600, 5000, 10,000, and 20,000 Hz; 18 dB/octave roll-off; 31-position switched attenuators for ± 0.2 dB adjustment over 50-dB range; 7 $\frac{1}{2}$ " H x 17" W x 14" D. Power Supply: Seven switched and two unswitched ac outlets; three dc outlets; 3 $\frac{1}{2}$ " H x 17" W x 7 $\frac{1}{2}$ " D. Phono Module A: frequency response into 10,000 ohms 20-20,000 Hz ± 0.25 dB (RIAA), 10-30,000 Hz ± 0.1 dB (flat); phase response into 10,000 ohms 20-20,000 Hz ± 5 degrees (RIAA), 20-20,000 Hz -12 degrees (flat); hum and noise -88 dB (RIAA unweighted), -94 dB (RIAA "A"), -84 dB (flat unweighted), -89 dB (flat "A"); IM dist. 0.0005% min. into 10,000 ohms, SMPTE at rated output; THD 0.002% min. into 10,000 ohms from 20-20,000 Hz at rated output; input gain from 30-50 dB, 2.5 V at 1000 Hz; input impedance 47,000 or 100,000 ohms; output impedance 600 ohms with max. 11 V rms; 3 $\frac{1}{2}$ " H x 13 $\frac{1}{8}$ " W x 6 $\frac{3}{8}$ " D. Switching Module and Power Supply have satinized aluminum front panel with charcoal Lexan inlay, other surfaces black anodized; Phono Module A has black anodized steel finish..... \$2395

Straight Line One Preamp/Plifier

Features precision-stepped gain control (2-dB steps); balance control; low filter; two-deck tape monitor buttons; dual-channel preamp overload indicators; input selector for phono, tuner, and aux. 1 and 2. Input sensitivity 2.5 mV (phono), 250 mV (high level); phono overload 33-330 mV; frequency response ± 0.5 dB from 20-20,000 Hz (phono RIAA), 10-20,000 Hz ± 0.1 dB (high level); THD 0.002%; IM dist. 0.0005%; 3 $\frac{1}{2}$ " H x 19" W x 12 $\frac{1}{4}$ " D \$599

DB SYSTEMS

DB-1A Preamp/Plifier

THD less than 0.0008% from 20-20,000 Hz; IM dist. less than 0.001%; frequency response:

(phono) 10-40,000 Hz ± 0.07 dB; (high level) 2-50,000 Hz $+0, -1$ dB; S/N (IHF A weighted) 89 dB (phono), 90 dB (line); filters: (low cut) flat, 20 Hz, 36 Hz at 6 dB/octave (phono only), (high cut) flat, 5000 Hz, 10,000 Hz at 6 dB/octave; output impedance 1000 ohms; max. output voltage 6 V into 10,000 ohms; max. load for rated dist. 10,000 ohms/3000 pF; input sensitivity for 1 V output: phono 2 mV into 50,000 ohms/100 pF, high level 120 mV into 50,000 ohms; controls: selector, balance, volume, low cut, high cut, tape monitor (includes "mute" position); requires separate regulated power supply (included); 8.5" x 3.2" x 7"..... \$400

DB-1Au. Same as DB-1A except with gold jacks..... \$415

DBR-1A. Same as DB-1A except mounted in standard rack; requires DB-2 power supply \$364

DB-2. Power supply; wired for 120 V or 240 V operation; supplies up to 300 mA at 33 V (includes protective current limiter)..... \$62

DENON

PRA-1003 Control Amplifier

Silicon transistor stereo control amplifier. Equalizer: input sensitivity/impedance 2.5 mV/50,000 ohms (phono 1), 2.5 mV/30k, 50k, and 100,000 ohms (phono 2); 320 mV max. input; THD 0.003% at 3 and 20 V from 20-20,000 Hz; RIAA deviation ± 0.2 dB from 20-20,000 Hz; S/N 86 dB (IHF "A"); separation 100 dB min. from 20-1000 Hz, 90 dB min. at 20,000 Hz; 35.6-dB gain. Control: input sensitivity/impedance 150 mV/50k ohms (tuner, aux., and phonos); 10-V max output; THD 0.003% at 3 V from 20-20,000 Hz, 0.007% at 10 V from 20-20,000 Hz; frequency response 10-100,000 Hz $+0/-1$ dB; S/N 100 dB min. (IHF "A"); stereo separation 100 dB min. at 20 and 1000 Hz, 85 dB min. at 20,000 Hz; gain control at 0, -10 , and -20 dB; bass control 50 Hz $+10$ dB, treble 20,000 Hz $+10$ dB; 18 dB/octave low filter rolloff, 6 dB/octave high filter rolloff. Features independent REC FUNCTION knob to hook up with phono 1 or tuner, FETs and ICL input circuit with no coupling condenser, separate left/right equalizer amps, pure-complementary pushpull circuitry, and headphone amplifier; 170 mm H x 410 mm W x 270 mm D..... \$550

EUMIG

C-1000 Stereo Preamp/Plifier

Features dc circuitry; built-in moving-coil head amp; bass and treble controls with tone defeat; low-cut (15 and 70 Hz) and high-cut (8000 and 12,000 Hz) filter switches; loudness and mode switches; tape monitor switch with two-way dubbing; input selector. Frequency response 0-200,000 Hz ± 1 dB (overall), ± 0.5 dB from 20-20,000 Hz (phono RIAA); S/N 80 dB (moving-magnet), 70 dB (moving-coil), 100 dB (tuner, aux, tape); THD 0.005% from 20-20,000 Hz; black matte or chrome finish; 19-in rack mountable..... \$580

DAVID HAFLER

DH-101 Stereo Preamp/Plifier

Rated output 3 V; max. output 7 V; dist. 0.0006% (phono, 1 kHz, 3 V output), 0.001% (high level); slew rate 12 V/ μ sec; phono overload 200 mV (1 kHz); hum and noise (A weighted) -88 dB (phono, 1 kHz, 10 mV input), -90 dB (high level, 1 V); frequency response 2-20,000 Hz ± 0.5 dB (phono), 20-20,000 Hz $+0/-0.25$ dB (high level); gain 34 dB (phono, 1 kHz), 20 dB ± 1 dB (high level); input impedance 25,000 ohms (high level); bass and treble controls; provision for patching in external equipment; three switched ac convenience outlets; 3.25" H x 13.75" W x 8.38" D

Kit..... \$200
Assembled \$300

audio research

The Best of Both Worlds

Second Generation Analog Module®
Solid State Power Amplifiers.
Four Solid State Models: D52B, D100B, D110B (shown here), D350B.
One Vacuum Tube Model: D79.



Acclaimed by several speaker manufacturers as the most musical amplifiers available.

Last Generation Vacuum Tube Preamp/Plifier, Model SP-6A.



"The most revealing preamplifier available. Like listening directly to your pickup cartridge."

Audio Research — The Audio electronics by which others are judged.

Today it costs little more to own the American Technology and craftsmanship of Audio Research. You can pay more, but you cannot buy better. Strong claims! But look and listen, and we believe you will agree.

Specification sheets are available on any of the above listed products as well as our two solid state preamp/Plifiers, the SP-4A and the SP-5. Other interesting state-of-the-art products coming soon include the MCP-2 and MCP-22, advanced moving coil pre-preamp/Plifiers, and the EC-22, an electronic crossover.

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audio research

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CIRCLE NO. 57 ON READER SERVICE CARD

HARMAN/KARDON

Citation 17 Preamp

Incorporates equalizer section; high-frequency and subsonic filters; two tape monitor loops controlled by front-panel switches; two phono, three high-level aux., and tuner inputs; switching for two sets of speakers and two headphone jacks; stepped attenuation. Max. output 14 V rms into 2200 ohms; 0.002% THD and 0.0025% IM dist. at 2 V rms output; S/N 92 dB (2 V rms, high-frequency filter in); input sensitivity 2.8 mV for 2 V rms output; phono preamp: S/N 80 dB (10 mV input, 1 kHz); input sensitivity 2.8 mV for 2 V at tape output (1 kHz); overload 180 mV (1 kHz); 4³/₄" H x 16" W x 12" D \$499

Citation 17s. Similar to Citation 17 but without equalizer section..... \$349

CW-17. Walnut enclosure for 17 and 17s \$40

P-11/17. Rack panel for 17 and 17s..... \$30

Citation RPM. Rack panel mount for 17 and 17s \$188

Citation CRM. Floor-standing rack mount for 17 and 17s..... \$285

HEATH

AP-1800 Stereo Preamp

Features built-in moving-coil cartridge head amplifier; switchable phono capacitance/input sensitivity selector; attenuator volume control; tone controls with two filters. Output 1.5 V; THD and IM dist. 0.02%; switches up to 1500 W using ac; 5¹/₄" H x 19" W x 11¹/₄" D. Kit..... \$380

AP-1615 Stereo Preamp

Basic preamp; THD and IM dist. 0.05%; -65 dB hum and noise (phono); frequency response 20-20,000 Hz +0/-0.2 dB; phono input 100 dB dynamic range; built-in subsonic filter; tape dubbing facilities; hi and lo filters; power on/off relay; solid walnut end panels; 4⁷/₃₂" H x 17¹/₂" W x 8" D. Kit..... \$140

HITACHI

HCA-8300 Preamp

Features bass and treble controls with tone defeat and bass and treble turnover frequency controls; low and high filters; two-way tape monitoring and dubbing; input selector with separate phono level adjustment; headphone level control; -5, -10, -20 dB gain selectors; loudness switch; mode control. Input sensitivity/impedance 2-6 mV/50k ohms (phono 1), 2 mV/50k ohms (phono 2), 100 mV/50k ohms (tuner, aux., tape); output level/impedance 1 V/600 ohms (pre out), 100 mV/600 ohms (tape out, PIN), 40 mV/80,000 ohms (tape out, DIN), 50 mV/8 ohms (headphones); frequency response 5-100,000 Hz ±1.5 dB (tuner, aux.), RIAA ±0.2 dB (phono); THD 0.01% (phono, 20 V at rec out; tuner, aux., 7 V at pre out); S/N 75 dB at 2 mV input (phono), 100 dB at 100 mV input (tuner, aux.), 100 dB at 100 mV input (tape); 6" H x 17¹/₈" W x 12¹/₈" D \$350

HCA-7500 Preamp

Complementary push-pull, three-stage dc equalizer amplifier circuitry and three-stage dc push-pull FET differential tone control amplifier circuitry. Features bass and treble controls with turnover frequency selectors and tone defeat; low and high filter switches; two-way tape dubbing and monitoring; -20-dB muting; mode switch; input selector with two cartridge load controls. Specifications: input sensitivity/impedance 2 mV-6 mV/50k ohms (phono 1), 2 mV/50k ohms (phono 2), 100 mV/50k ohms (tuner, aux., tape 1 and 2); max. input level 350 mV at

1000 Hz (phono 1 and 2); output level/impedance 1 V/600 ohms (preamp out), 100 mV/600 ohms (tape out, PIN and DIN); max. output level more



than 7 V (preamp out); frequency response 20-20,000 Hz ±0.2 dB (phono 1 and 2), 5-100,000 Hz +0/-1 dB (tuner, aux., tape 1 and 2); THD 0.005% at 1 V, tape out (phono 1 and 2, tuner, and aux.); S/N (IHF "A") 87 dB (phono 1 and 2), 100 dB (tuner, aux., tape 1 and 2); residual hum and noise (preamp out) 8 mV; 6¹/₂" H x 18³/₈" W x 13³/₄" D \$350

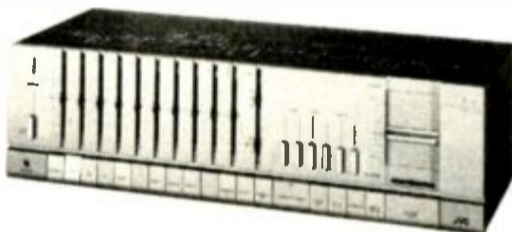
HCA-6500 Preamp

Features bass and treble controls with tone defeat; left/center/right balance control; subsonic filter; two-way tape dubbing and monitoring; mode, loudness, and -20-dB muting switches; input selector. Input sensitivity/impedance 2.5 mV/50k ohms (phono), 150 mV/40k ohms (tuner, aux., tape); phono overload 150 mV; frequency response 20-20,000 Hz ±0.3 dB (phono), 20-20,000 Hz +0/-1 dB (tuner, aux., tape); S/N (IHF A) 83 dB (phono), 90 dB (tuner, aux., tape); HD 0.005%; 3¹/₈" H x 17¹/₈" W x 10¹/₁₆" D..... \$200

JVC

JP-S7 S.E.A. Preamp

Input sensitivity/impedance 2 mV/33,000, 47,000, or 100,000 ohms selectable (phono), 200



mV/80,000 ohms (tuner), 200 mV/70,000 ohms (aux.), 200 mV/50,000 ohms (tape); capacitance selectable, 100 or 330 pF; max. input 350 mV (phono, 1 kHz), 35 V (tuner, aux.); rated output 1 V (output), 200 mV (tape); output impedance 600 ohms (output), 80 ohms (tape PIN), 70,000 ohms (tape DIN); THD 0.02% at 1 V output, 0.05% at 5 V output (1 kHz); S/N (IHF A) 75 dB (phono), 96 dB (tuner, aux., tape); frequency response ±0.3 dB from RIAA curve (phono), 15-100,000 Hz +0/-0.5 dB (tuner, aux., tape); S.E.A. graphic equalizer has 10 controls (one per octave) with ±12 dB range; subsonic and high filters; 6¹/₃₂" H x 22³/₃₂" W x 10¹/₃₂" D \$750

EQ-7070 Phono Equalizer Preamp

Features built-in moving-coil head amplifier, high-gain equalizer amp with dc circuitry, and dual-FET push-pull dc amplifier; input selector with separate phono selector and cartridge load capacitance/resistance selectors; two-deck tape/source monitor switch; detented volume/balance control; LED standby and operation indicators. Input sensitivity/impedance 0.1 mV/11 ohms (phono 1 MC), 0.025 mV/2.5 ohms (phono 2 MC), 1.8 mV/100, 33k, 50k, 100k ohms (phono 1, 2, 3 MM), 160 mV/50k ohms (aux., tuner, and tape); phono overload 15 mV (MC 1), 3.8 mV (MC 2), 300 mV (MM 1, 2, 3) at 1000 Hz; frequency response 30-15,000 Hz ±0.2 dB (phono); S/N (IHF A) 73 dB (MC 1), 82 dB (MC 2), 85 dB (MM 1, 2, 3); THD 0.003% (MC 1), 0.005% (MC 2), 0.002% (MM 1, 2, 3); 2⁷/₁₆" H x 16¹/₁₆" W x 14⁷/₁₆" D \$950

P-3030 Control Preamp

Input sensitivity/impedance 2 mV/100, 33,000, 47,000, and 100,000 ohms selectable (phono),

0.1 mV/30 ohms (MC phono), 140 mV/50,000 ohms (tuner, aux., tape); capacitance selectable 100, 220, 330, and 470 pF; output/impedance 140 mV/2000 ohms (tape), 1 V/600 ohms (rated), 20 V/600 ohms (max.); phono overload 300 mV rms (phono, 1 kHz), 15 mV rms (MC phono, 1 kHz); THD 0.005% (phono, aux., 10 V output), 0.05% (MC phono, 1 V output); frequency response ±0.3 dB from RIAA curve (phono), ±0.5 dB from RIAA curve (MC phono), 10-40,000 Hz ±0.5 dB (aux.); S/N (IHF A, 1 V output) 76 dB (phono), 66 dB (MC phono), 96 dB (aux., tuner); bass and treble tone controls; two switched and one unswitched ac convenience outlets; 2³/₈" H x 16¹/₈" W x 13¹/₁₆" D..... \$440

KENWOOD

Audio Purist Group

L-07CII Control Preamp

Features low-level impedance circuitry, two independent phono equalizer amplifiers for moving-coil



and moving-magnet cartridges, and cascode differential buffer amplifier circuitry; bass and treble tone controls; 18-Hz subsonic filter; output switch; two-way tape dubbing; input selector. Frequency response ±0.2 dB from 20-20,000 Hz (RIAA phono 1) and from 30-20,000 Hz (RIAA phono 2), 1-350,000 Hz +0/-3 dB (tuner, aux., and tape play); THD 0.004% from 20-20,000 Hz at 1 V out (tuner, aux., tape), and at 3 V out (phono 1), 0.008% from 20-20,000 Hz at 1 V out (phono 2); input sensitivity/impedance 2.5 mV/50k ohms (phono 1), 0.2 mV/600 ohms (phono 2), 140 mV/25k ohms (tuner, aux., tape); S/N 90 dB (phono 1), 70 dB (phono 2), 108 dB (tuner, aux., tape); max. input 450 mV rms (phono 1), 40 mV rms (phono 2); includes low-impedance cable and remote power switch for connection to L-09M, L-07MII, and L-05M power amplifiers; 3¹/₁₆" H x 18²/₃₂" W x 13³/₁₆" D \$900

LUX

C-12 Preamp

Direct-coupled stereo preamplifier. Features DML-IC for dc drift suppression; volume control; linear equalizer; subsonic filter; input impedance adjuster; tape monitor, tape dubbing, and record off switch; audio attenuator with preset position; extra ac outlet (two switched and one unswitched). Output/impedance 1 V/100 ohms (pre out), 150 mV/100 ohms (rec. out); THD 0.005% (phono, rec. out, tuner, aux., monitor, pre out); IM dist. 0.002% (phono, rec. out, tuner, aux., monitor, pre. out); frequency response 20-20,000 Hz ±0.2 dB (phono 1 and 2), 1-200,000 Hz -0.5 dB (tuner, aux. 1 and 2, monitor 1 and 2); input sensitivity/impedance 2.3 mV/50,000 ohms (phono 1 and 2), 150 mV/50,000-60,000 ohms (tuner, aux. 1 and 2, monitor 1 and 2); S/N (IHF "A") better than 96 dB (phono 1, 2), better than 100 dB (tuner, aux. 1 and 2, monitor 1 and 2); phono overload 300 mV min. 3¹/₁₆" H x 17¹/₁₆" W x 14⁵/₁₆" D..... \$645

Laboratory Reference Series

Luxman 5C50 Stereo Control Preamp

Features linear equalizer, switch-selected subsonic notch filter circuitry, selectable sharp high frequency filters, tape dubbing and monitoring, muting switch. Output 1 V (pre out), 150 mV (rec. out), 18 V (max.); THD 0.005%; IM dist. 0.002%; frequency response RIAA ±0.2 dB (phono), 0.5-200,000 Hz +0/-0.5 dB (tuner, aux.); S/N

80 dB below 2.5 mV (phono, IHF A), 100 dB (tuner and aux., IHF A); input sensitivity for 1 V pre. out 2.5 mV (phono), 150 mV (tuner, aux.); input impedance 30,000, 50,000, 100,000 ohms (phono), 50,000 ohms (tuner, aux.); output impedance 500 ohms; crosstalk -80 dB (phono), -95 dB (tuner, aux.); phono overload 300 mV rms (1 kHz); residual noise 0.33 mV (phono), 5 μ V (tuner, aux.); 4" H x 17.7" W x 16" D \$895

MARANTZ

3250B Preamp/Control Console

Includes moving-coil head amplifier. THD and IM dist. 0.01% at 3-V output from 20-20,000 Hz. Features selectable tone turnovers; bass, midrange, and treble slide tone controls; independent tape-to-tape copy; two-recorder tape monitoring circuitry; low (18 dB/octave at 15 Hz) and high (18 dB/octave at 9000 Hz) filters. 5 $\frac{3}{4}$ " H x 16 $\frac{3}{4}$ " W x 9 $\frac{3}{4}$ " D..... \$350

MERIDIAN by ANGLO-AMERICAN

101 Stereo Preamp/Control Console

Features choice of moving-coil or standard pickup cartridge input; one-way tape dubbing with tape/source monitor switch; mono switch; optional input modules to optimize leading cartridges available. Input sensitivity 1.4 mV (phono), 450 mV (high level); phono overload 160 mV; frequency response 20-20,000 Hz \pm 0.5 dB (phono RIAA), 5-50,000 Hz \pm 0.5 dB (high level); THD and IM dist. 0.01%; chocolate brown textured enamel finish with gold-blocked lettering; 2" H x 5.5" W x 12.5" D... \$465

METRON

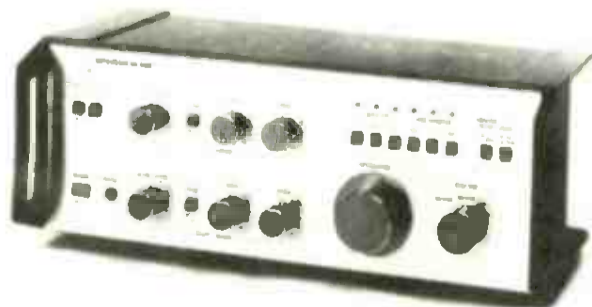
PR-1 Preamp/Control Console

Features multiple-gang stepped attenuator volume control adjustable in 2-dB increments; separate stepped bass and treble controls \pm 10 dB; detented balance control; input selector switch with LED; tape monitor switch; tape dubbing switch; -20 dB muting switch; subsonic filter (-9 dB/octave at 10 Hz); headphone jack. Input sensitivity (IHF) 0.5 mV (phono 1 and 2), 55 mV (aux. and tuner), 62 mV (tape), 0.45 mV at 1000 Hz (mic); phono input impedance 47k ohms; phono overload 230 mV at 1000 Hz; THD and SMPTE IM dist. 0.01% (phono to main out), 0.005% (aux., tuner, tape to main out); RIAA phono deviation \pm 0.2 dB from 30-15,000 Hz, 5-200,000 Hz -3 dB (aux., tuner, tape 1 and 2), 50-20,000 Hz -3 dB (mic); S/N (IHF "A") phono 84 dB (weighted), 73 dB (unweighted), aux., tuner, and tape 92 dB (unweighted), mic 77 dB (weighted), 70 dB (unweighted). 2.8" H x 18.9" W x 14.2" D \$500

MITSUBISHI

DA-P20 Stereo Preamp/Control Console

Dual-mono docking preamplifier. Specifications: input sensitivity/impedance 0.1 mV/10 ohms (phono



MC), 2.3 mV/60k ohms (phono MM), 150 mV/50k ohms (tuner, aux., tape 1/2); RIAA deviation \pm 0.2 dB from 20-20,000 Hz (phono MC, MM), +0/-0.5 dB from 10-100,000 Hz (tuner, tape 1/2); THD 0.005% (phono MC), 0.003% (phono MM), 0.002% (tuner, aux., tape 1/2); S/N (IHF "A") 77

dB into 47 ohms (phono MC), 84 dB, closed circuit (phono MM), 110 dB, closed circuit (tuner, aux., tape 1/2); channel separation 80 dB at 20,000 Hz for phono MC/MM, 100 dB for tuner and tape 1/2; phono overload 12 mV at 1000 Hz with 0.1% THD (phono MC), 290 mV (phono MM); output level/impedance 1 V/600 ohms rated, 18 V max., 150 mV/600 ohms (tape 1/2); load impedance 8-16 ohms. Features attenuator-type level controls: independent tone controls, tone-defeat, and output level controls for each channel; provisions for two tape decks with duplication and monitoring facilities from one to the other; subsonic filter; A, B or A+B speaker selections. 6 $\frac{3}{4}$ " H x 16 $\frac{3}{4}$ " W x 8" D. \$430

M-PO1 Micro-Preamplifier

With built-in moving-coil head amp. Specifications: input sensitivity/impedance 100 μ V/10 ohms (phono MC), 2.3 mV/50k ohms (phono MM), 150 mV/50k ohms (tuner, aux., tape 1/2); RIAA deviation \pm 0.2 dB from 20-20,000 Hz (phono), +0/-0.5 dB from 10-100,000 Hz (high level); THD at 1 V output from 20-20,000 Hz -20 dB 0.005% (phono MC), 0.003% (phono MM), 0.002% (high level); S/N (IHF "A") 77 dB (phono MC), 90 dB (phono MM for 10 mV out), 110 dB, closed circuit (high level); phono overload at 12 mV (MC), 290 mV (MM); output level/impedance 1 V/600 ohms, rated (preamp out), 150 mV/600 ohms at rated output (tape 1/2). Features digital tone controls with LEDs, provisions for two tape decks with tape duplication and monitoring facilities from one to the other, and gold-plated phono input terminals. 2 $\frac{3}{4}$ " H x 10 $\frac{3}{4}$ " W x 9 $\frac{3}{4}$ " D \$370

DA-P10 Stereo Preamp/Control Console

Two completely separate amplifiers for left and right channels; frequency response 30-15,000 Hz \pm 0.2 dB (phono, RIAA), 10-70,000 Hz +0/-0.5 dB (tuner, aux., play); channel separation 100 dB at 1 kHz, 80 dB at 20 kHz (phono), 85 dB at 20 kHz (tuner, aux., play); THD 0.05% max.; S/N (IHF A) 73 dB (phono), 90 dB (tuner, aux., play); phono overload 270 mV; input sensitivity/impedance 2.2 mV/50,000 ohms (phono 1 and 2), 150 mV/60,000 ohms (tuner, aux., play); output level 9 V max. (pre out, 50,000 ohms), 150 mV (rec out, 50,000 ohms), 50 mV (headphones, 8 ohms); 6 $\frac{3}{4}$ " H x 16 $\frac{3}{4}$ " W x 8" D \$330

NAIM by AUDIOPHILE SYSTEMS

NAC 32 Preamp/Control Console

Features input selector for moving-magnet and moving-coil phono cartridges, tuner, and two tape; volume and balance controls; mode switch; normal, mute, and tape monitor switch. Input sensitivity 2.0 mV (MM), 0.1 mV (phono MC), 75 mV (high level); max. phono overload 200 mV (MM), 10 mV (MC); frequency response 20-20,000 Hz \pm 0.5 dB; THD and IM dist. 0.02%; 3" H x 8" W x 12" D \$920

NAC 12S Preamp/Control Console

Features input selector for moving-coil phono cartridge, tuner, and tape; volume and balance controls. Input sensitivity 0.1 mV (phono), 75 mV (high level); phono overload 10 mV; frequency response 20-20,000 Hz \pm 0.5 dB; THD and IM dist. 0.02%; 3" H x 5" W x 12" D \$650

NAKAMICHI

630 FM Tuner/Preamp/Control Console

See Section 2, "Tuners," under Nakamichi, for details. \$730

610 Stereo Control Preamp/Control Console

Combines preamplifier circuitry, test circuitry, and mixing facilities; 19 different inputs with full dubbing and 5-in/2-out mixing; built-in sine wave tones, pink noise, phase check, and invert capabilities; remote speaker/amplifier selection; mike input attenuators; frequency response 30-100,000 Hz \pm 0.75 dB (mike), 20-100,000 Hz \pm 0.75 dB (aux.), RIAA \pm 0.3 dB (phono); S/N (IHF A) 65 dB (mike with 15-dB attenuation), 80 dB (phono re 1

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mV), 93 dB (aux.); THD 0.01% (mike), 0.005% (phono and aux.)..... \$660
610B. Same as 610 with black matte finish... \$680
WC-600. Walnut cabinet for Nakamichi 600 Series components..... \$55
RM-610. Remote control unit; permits switching of up to three speaker pairs or amplifiers from front-panel controls of preamplifier..... \$90

410 Stereo Preamplifier

Frequency response 20-50,000 Hz $\pm 0/-1.5$ dB (aux., tape), RIAA ± 0.3 dB (phono); S/N (IHF A) 102 dB (aux., tape), 80 dB (phono re 1 mV); phono overload 250 mV (1 kHz, 5 mV sensitivity); dist. 0.003%; switchable phono input sensitivity (1, 2, or 5 mV); defeatable active subsonic phono filter (-45 dB at 10 Hz); tone control circuitry bypass switch; variable contour control; 3¹/₂" H x 16" W x 8¹/₂" D \$370
WC-400. Walnut cabinet for Nakamichi 400 Series components..... \$30

NIKKO

Beta III Preamplifier

Discrete FET stereo preamplifier features bass and treble controls with defeat; 12 dB/octave and 6 dB/octave subsonic and low filter switch; two-way tape dubbing; 22k, 47k, and 100k ohm phono impedance selector and phono 2 level control; input selector. Input sensitivity 2.0 mV (phono 1 and 2), 110 mV (tuner and aux.); frequency response 10-50,000 Hz ± 0.5 dB (high level), ± 0.2 dB (phono RIAA); frequency response 10-50,000 Hz ± 0.5 dB (high level), ± 0.2 dB (phono RIAA); S/N (IHF A) 95 dB (phono 1 and 2), 100 dB (tuner and aux.); THD 0.004% (phono), 0.005% (tone); max. phono input 350 mV; matte black finish; 2¹/₂" H x 19" W x 13" D..... \$420

Beta II Preamplifier

Features calibrated dual-attenuator master volume control; balance control; two-way tape monitoring and dubbing system; tone defeat; -20 dB audio muting; switchable subsonic filter (-12 dB/octave); phono impedance selector; dual phono level controls. Input sensitivity/impedance 2.5 mV/22,000, 47,000, 100,000 ohms (phono), 150 mV/50,000 ohms (tuner, aux.); S/N 89 dB (phono), 100 dB (tuner, aux.); RIAA equalization ± 0.2 dB, frequency response 10-100,000 Hz $+0/-1$ dB (high level); rated output 1.0 V; rack mountable; 2¹/₂" H x 19" W x 11¹/₂" D \$240

ONKYO

P-303 Preamplifier

Features two mono amplifiers, separate moving-coil amplifier with provision for moving-magnet cartridge, and equalizer amplifier circuitry; 32-detent, 4-gang attenuator volume control; transient killer circuit with reed relay; power, volume, balance, tape monitor; phono/tuner selector, MM/MC cartridge, impedance selector (30,000, 50,000, and 100,000 ohms), and accessory terminal switch controls. Input sensitivity/impedance 100 μ V/10 ohms (phono MC), 2.5 mV/30,000, 50,000, 100,000 ohms (switchable, phono MM), 150 mV/50,000 ohms (tuner, tape), 1.5 V/82,000 ohms (accessory receive); rated output/impedance 150 mV/2000 ohms (tape), 1.5 V/100 ohms (accessory send), 1.5 V (15 V max.)/600 ohms (output); frequency response 3.5-200,000 Hz $+0/-1.5$ dB (tuner), RIAA ± 0.2 dB (phono); phono overload 330 mV rms at 1 kHz, 0.05% THD (phono MM), 13 mV rms at 1 kHz, 0.05% THD (phono MC); THD 0.006% (phono MM, 3 V output), 0.03% (phono MC, 3 V output); IM dist. 0.01%; S/N (IHF A) 70 dB (phono MC), 83 dB (phono MM), 100 dB (tuner). African wood veneer over Luan plywood

finish. 3¹/₄" H x 17³/₄" W x 14⁹/₁₆" D..... \$410
U-30. System selector unit provides additional input/output facilities to P-303: phono 1, 2, and 3; tuner (aux.) 1, 2, and 3; tape monitor 1, 2, Source; record mode channel 1 to 2, channel 2 to 1, rec. off; pre-out 1, 2, 1+2, off; mode stereo (normal, reverse)/mono (L+R, L, R); speakers 1, 2, 1+2, off; headphone; meter selector reads speaker output power (10 and 100 W), pre-out (dB-scale at 1 and 10 V), off. African wood veneer over Luan plywood; 3¹/₄" H x 17³/₄" W x 14⁹/₁₆" D \$400
E-30. Audio equalizer provides additional frequency notches to P-303: 63 (45/32 switchable), 125, 250, 500, 1000, 2000, 4000, 8000, and 16,000 Hz; max. switchable range $\pm 5/+10$ dB in 0.5/1 dB step; African wood veneer over Luan plywood; 3¹/₄" H x 17³/₄" W x 14⁹/₁₆" D \$550

OPTONICA

SO-9205 Preamplifier

Features built-in moving-coil cartridge head amp; tone controls with tone defeat; switchable subsonic, low, and high filters; audio muting; two-way tape dubbing; loudness and mode switches; input selector with separate three-position phono impedance and phono capacitance selectors; LED indicators for inputs; S/N 90 dB (phono), 100 dB (aux.); phono overload 300 mV; ebony faceplate..... \$350

PHASE LINEAR

4000 Series Two Stereo Preamplifier

Features single-pass noise-reduction and dynamic-range-recovery systems; frequency response 20-20,000 Hz ± 0.4 dB (high level), RIAA phono deviation ± 0.4 dB; gain 40 dB (phono), 20 dB (high level); S/N (IHF "A") 80 dB (phono), 85 dB (high level); two monitor switches for two-deck operation; separate dc headphone amplifier; 22-detent 2-dB stepped attenuator volume control; ultrasonic filter; switched outlets handle 1100 W. 7" H x 19" W x 10" D..... \$700
 Walnut side panels \$50

3000 Series Two Stereo Preamplifier

Features CMOS logic memory system which switches critical signal paths to 14 relays; tactile pushbutton controls; phono 1 stage for moving-magnet cartridges and phono 2 stage for moving-coil cartridges; two-deck tape monitoring and dubbing facilities; noise reduction loop (processes noise ahead of tape monitor); subsonic filter (18 dB/octave at 15 Hz); dc headphone amplifier. Specifications: dist. less than 0.04% from 20-20,000 Hz; 2.0 V rms rated output; S/N 90 dB (phono MM), 78 dB (phono MC), 91 dB (high level); RIAA phono deviation $+0.3/-0.3$ dB, 20-20,000 Hz ± 0.1 dB (high level); input impedance 47 000 ohms (phono MM), 50, 200, or 500 ohms (phono MC), 50,000 ohms (high level); phono overload 120 mV (MM), 12 mV (MC). 3¹/₂" H x 19" W x 8" D \$580

2000 Series Two Stereo Preamplifier

Features separate bass and treble tone controls for each channel, tone defeat, active equalizer and ambient recovery circuits, tone turnover controls; two tape monitor circuits; THD 0.05%; frequency response RIAA ± 0.5 dB (phono); input sensitivity 40,000 ohms (high level), 47,000 ohms (phono, 50 pF); hum and noise -88 dB (high level, 2 V), -80 dB (low level, 10 mV); 5¹/₂" H x 19" W x 6" D \$300
 Walnut side panels \$50

PHILIPS

AH 572 Preamplifier

Features lighted function display; LED touch switches; memory lock; detented volume, bass, treble, and balance controls; separate phono preamps; front-panel play/record for Tape B; tape dubbing/monitoring; tone defeat; channel mode selector;

headphone jack; phono 1/2, tape A/B, tuner, and aux. inputs; audio 1/2 and tape A/B outputs; four ac receptacles; high and low cut filters; muting. Input sensitivity 1.5-18 mV (phono, adjustable); THD and IM dist. 0.008%; S/N (A weighted) 75 dB (phono), 90 dB (tuner, aux., tape); phono overload 750 mV; frequency response RIAA ± 0.25 dB (phono), 10-50,000 Hz ± 0.5 dB (tuner, aux., tape); separation 55 dB; crosstalk -75 dB; output 2 V (rated), 12 V (max.), record output 200 mV. Silver chassis; 8" H x 18" W x 15" D \$480
AH5721. Black chassis..... \$500

PIONEER

SPEC-1 Stereo Preamplifier

Input sensitivity/impedance 2.5 mV/50,000 ohms (phono, mike), 150 mV/100,000 ohms (tuner, aux., tape); 0.05% THD at 2 V output; frequency response 30-15,000 Hz ± 0.2 dB (phono), 10-70,000 Hz $+0/-0.5$ dB (tuner, aux., tape); tone controls; filters; mixing facilities; level adjust; input impedance selector; 6⁷/₈" H x 18³/₈" W x 16³/₈" D \$650

RG DYNAMICS

Dimension 3 Stereo Control Preamplifier

Employs circuit designed to isolate cartridge-preamplifier interaction and minimize overload and TIM distortion; features bass and treble controls with tone defeat; subsonic filter; mode switch; LED-indicated input selector includes tape 1 and 2; two-way tape dubbing and monitoring; gold-plated phono input jacks; external signal processor loop. Phono input sensitivity/impedance 2 mV/47k ohms; gain 34 dB (phono), 20.5 dB (line); phono overload 200 mV at 1000 Hz (input sine wave); frequency response ± 0.05 dB from 20-20,000 Hz (phono RIAA), 0.5-170,000 Hz ± 3 dB (line); S/N 68 dB (phono, A weighted), 85 dB (line level); THD 0.01% at 1000 Hz (phono), 0.02% from 20-20,000 Hz (high level); silver panel with walnut side panels; 3¹/₂" H x 18" W x 12" D \$595

ROTEL

RC-5000 Stereo Preamplifier

Stereo dc amplifier configuration with dc NF phono equalizer and dc ND graphic equalizer; includes



built-in moving-coil head amplifier. Features 10-band octave equalizer ± 10 dB from 100-10,000 Hz; four-gang attenuated volume control; independent recording selector; subsonic and supersonic filters; full tape dubbing with three tape decks; stereo mic mixing; two independent power supplies; gold-plated input jacks and input/output facility; third power supply for relays and headphone amplifier; two headphone jacks. THD and IM dist. 0.002% (aux.) from 20-20,000 Hz; S/N (IHF "A") 85 dB (phono), 95 dB (tuner and tape); input sensitivity/impedance 2-8 mV/30-100,000 ohms (phono 1), 2 mV/50,000 ohms (phono 2), 0.1 mV/32 ohms (phono MC), 150 mV/50,000 ohms (tuner, aux., tape), 5 mV/600 and 50,000 ohms (mic), 150 mV/600 ohms (main in); 12 dB/octave low filter at 15 and 60 Hz, 12 dB/octave high filter at 7000 and 24,000 Hz; 7¹/₂" H x 19" W x 16³/₂" D \$1600

RC-2000 Stereo Preamplifier

Four-block dc amplifier configuration with NF

phono equalizer and built-in moving-coil head amplifier. Features attenuated volume control; left/right bass and treble tone controls ± 10 dB/octave from 100-10,000 Hz; independent recording selector; subsonic and supersonic filters; full tape dubbing with two tape decks; shielded split power supplies; gold-plated input jacks; headphone jack. THD and IM dist. 0.002% from 20-20,000 Hz; S/N (IHF "A") 80 dB (phono), 100 dB (tuner and tape); input sensitivity/impedance 2 mV/50,000 ohms (phono 1 and 2), 0.1 mV/32 ohms (MC phono), 150 mV/50,000 ohms (tuner, aux., and tape), 0.775 V/50,000 ohms (main in); 12 dB/octave low filter at 15 Hz, 12 dB/octave high filter at 24,000 Hz; $5\frac{1}{8}$ " H \times 19" W \times 13 $\frac{1}{8}$ " D..... \$530

RC-1000 Stereo Control Amplifier

Features OP equalizer amplifier and moving-coil head amplifier. Equalizer: ten-band octave equalizer with center frequencies set at 32, 63, 125, 250, 500, 1000, 2000, 4000, 8000, and 16,000 Hz, ± 12 dB boost or cut. Preamp: features three-position phono load impedance selector switch; two-way tape dubbing and monitoring; subsonic filter; -15 dB muting; input sensitivity/impedance 2.5 mV/35k, 50k, 70k ohms (MM), 0.2 mV/30 ohms (MC), 150 mV/50k ohms (aux. and tuner); frequency response 5-70,000 Hz $+0/-1$ dB; THD 0.03%; S/N 75 dB (MM), 60 dB (MC), 90 dB (aux. and tuner); $3\frac{7}{32}$ " H \times 16 $\frac{1}{16}$ " W \times 11 $\frac{1}{32}$ " D. \$320

SAE

2100 Stereo Parametric Preamp

Serves as complete control center; incorporates parametric equalizer; frequency response 20-20,000 Hz ± 0.25 dB; THD and IM dist. 0.005%; S/N 95 dB (phono); stepped volume control; gain control; full tape EQ/dubbing facilities; speaker switching; scope outputs; four phono circuits with separate feedback gain controls; 7" H \times 19" W \times 8 $\frac{1}{2}$ " D..... \$950

2100L. Same as 2100 but without parametric equalizer; has LED display which monitors output at tape, line, or power amp level..... \$800

WMC-2. Unassembled walnut cabinet for 2100 and 2100L..... \$50

2900 Stereo Parametric Preamp

Incorporates parametric equalizer, full tape EQ/dubbing facilities, relay muting, and feedback gain control; THD and IM dist. 0.01%; frequency response 20-20,000 ± 0.25 dB (phono and high level); S/N 78 dB (phono), 95 dB (aux.); 5.25 " H \times 19" W \times 3.5" D..... \$500

WMC-4. Unassembled walnut cabinet \$45

3000 Tone Control Preamp

Features two-stage phono circuit, full tape recording facilities and tape EQ, and 30 Hz, 12 dB/octave, and 100 Hz 6 dB/octave filters. Frequency response 20-20,000 Hz ± 0.25 dB (phono and aux.); THD and IM dist. 0.02%; S/N 72 dB (phono), 85 dB (aux.). $5\frac{1}{4}$ " H \times 19" W \times 3 $\frac{1}{2}$ " D..... \$300

WMC-4. Unassembled walnut cabinet \$45

SANSUI

CA-F1 DD/DC Preamp

Features "Diamond Differential dc circuitry" in phono equalizer section; phono moving-coil, phono moving-magnet, tuner, and aux. input selector; A-B speaker switching; tape 1, 2, and source monitor control; separate bass and treble controls with tone defeat switch; balance control; loudness contour; switchable subsonic filter control; main outputs can be fed to one or two power amps. Frequency response ± 0.2 dB from 20-20,000 Hz (RIAA phono), 5-600,000 Hz (aux., tuner, and tape); THD 0.005%; S/N 90 dB (phono), 100 dB (aux., tuner, and tape); slew rate 50 V/ μ sec; rise time 0.6 μ sec; phono overload 350 mV; nominal output 1 V; matte black finish with detachable rack-mount adaptors..... \$495

SANYO

PLUS C55 Stereo Preamp

Features low-noise moving-coil pre-preamp, discrete op amp moving-magnet phono preamp/equalizer, and dc-coupled class-A circuitry; bipolar power supplies; passive volume and balance controls and passive subsonic filter switch; bass and treble controls with turnover frequency switches and tone defeat; two-way tape dubbing and monitoring; input and mode selectors. Input sensitivity/impedance 2.5 mV/47k ohms (phono MM), 100 μ V/100 ohms (phono MC), 150 mV/47k ohms (aux. and tape); frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 10-40,000 Hz ± 0.5 dB (aux. and tape); S/N (IHF A) 85 dB (phono MM), 70 dB (phono MC), 100 dB (aux. and tape), max. phono input 250 mV rms (MM), 10 mV rms (MC); includes rack-mount handles; $1\frac{3}{4}$ " H \times 19" W (with handles) \times 10 $\frac{1}{2}$ " D..... \$250

H.H. SCOTT

Alpha 1 Preamp

Features bass, midrange, and treble controls with tone defeat and bass and treble turnover frequency controls; 12 dB/octave low (-3 dB at 40 and 80 Hz) and high (-3 dB at 8000 and 12,000 Hz) filters; mic mixing; -20-dB audio muting; two-way tape monitoring and dubbing. Input sensitivity 2.5 or 9 mV switchable (phono 1), 2.5 mV (phono 2), 750 μ V max. variable (mic), 250 mV (tuner, aux., tape); input impedance 47k ohms (low level), 50k ohms (high level); frequency response 20-20,000 Hz ± 0.5 dB (phono and mic), 15-35,000 Hz ± 0.5 dB (tuner, tape, aux.); THD 0.05%; IM dist. 0.08% (SMPTE); S/N (A weighted) 75 dB (phono), 90 dB (tuner, tape, aux.); rated output level 2.5 mV; includes EIA rack-mount handles; $5\frac{1}{8}$ " H \times 19" W \times 12 $\frac{1}{2}$ " D..... \$400

SERIES 20

C-21 Stereo Preamp

Features left/right gain controls; source/tape monitor switch; cartridge resistance and capacitance controls; subsonic filter. Input sensitivity/impedance 2.5 mV/100, 10k, 25k, 50k, 75k, 100k ohms switchable (phono), 150 mV/50k ohms (aux. and tape); phono overload 300 mV at 1000 Hz; frequency response ± 0.2 dB from 20-20,000 Hz (phono), 10-100,000 Hz $+0/-0.2$ dB (aux.); S/N (IHF A) 80 dB at 1 V out (phono), 100 dB at 1 V out (aux.); THD 0.006% at 1 V out, 0 dB gain (phono), 0.005% at 1 V out, 0 dB gain (aux.); $3\frac{1}{16}$ " H \times 16 $\frac{1}{32}$ " W \times 14 $\frac{1}{16}$ " D..... \$390

SONY

TA-E88B Stereo Reference Preamp

Dual mono preamp features direct-coupled circuitry; built-in moving-coil head amp with separate power supply; dual-FETs and bipolar transistors in EQ and buffer amp stages; monitor switch for two tape decks and source; input selector with separate selectable phono input impedance control; subsonic filter; three-position audio muting; balance and mode controls. Input sensitivity/impedance 2.5 mV/50k ohms (phono 1), 2.5 mV/10k-100k ohms (phono 2), 0.125 mV/25 or 100 ohms (head amp), 150 mV/50k ohms (tuner, aux., tape); max. input 250 mV (phono 1 and 2), 12.5 mV (head amp); frequency response ± 0.2 dB (phono RIAA), 0-500,000 Hz $+0/-1$ dB (tuner, aux., tape); THD and IM dist. 0.002%; S/N (IHF A) 88 dB (phono 1 and 2), 80 dB (head amp), 105 dB (tuner, aux., tape); $3\frac{1}{8}$ " H \times 18 $\frac{1}{8}$ " W \times 14 $\frac{1}{2}$ " D..... \$1300

TA-E7B Preamp/Control Center

Stereo preamp features built-in head and phono equalizer amplifiers; two-peak average power meters with meter range switch; bass and treble controls with tone defeat and turnover frequency

selectors; connections for tuner, two phono, two aux., two tape decks, and two pairs of preamp outputs; tape monitoring/dubbing facilities for two decks; front-panel Tape-2 connections; 32-tape attenuator volume control with -20-dB muting switch; rear-panel selectable phono input impedance for matching load requirements; stereo, reverse, L+R, L/R, and system check mode selector. Input sensitivity/impedance 2.5 mV/50,000 ohms (phono 1) and switchable 50k/100k ohms (phono 2), 0.125 mV/3 or 40 ohms switchable (head amp), 150 mV/50,000 ohms (tuner, aux., tape); max. input 250 mV at 1000 Hz with 0.01% THD (phono 1 and 2), 12.5 mV (head amp); output level/impedance 150 mV/1000 ohms (rec. out), 1.5 V/1500 ohms (pre out), 10 mV/3.3 ohms (headphone); THD and IM dist. 0.003%; frequency response 1-150,000 Hz $+0/-1$ dB (tuner, aux., and tape), RIAA phono deviation ± 0.2 dB; S/N (IHF "A") at rated input 85 dB (phono 1 and 2), 75 dB (head amp), 105 dB (tuner, aux., and tape); bass tone control ± 10 dB at 25 Hz with 150-Hz turnover and at 50 Hz with 300-Hz turnover; treble tone control ± 10 dB at 20,000 Hz with 4000-Hz turnover and at 40,000 Hz with 8000-Hz turnover; high (12 dB/octave above 9000 Hz) and low (12 dB/octave below 30 Hz) filters; gold-plated phono inputs. $6\frac{3}{4}$ " H \times 18 $\frac{1}{8}$ " W \times 12 $\frac{3}{8}$ " D..... \$820

TA-E86B Stereo Preamp

Features direct-coupled circuitry; built-in moving-coil head amp; selectable phono input impedance selector; two pairs of preamp outputs include bass-boost/subsonic filter..... \$600

SOUNDCRAFTSMEN

SP4002 Signal Processor/Preamp

Combination preamplifier and 10-band octave equalizer. Preamplifier section features two sepa-

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rate phono preamps with variable cartridge loading (0-750 pF) and variable impedance (100/47,000 ohms); variable ± 20 dB gain stage; S/N 97 dB; 300 mV overload; will accept moving-coil, variable-reluctance, or moving-magnet cartridges; six input sources; two external processing loops, equalizer and mono A+B mixing switchable to two tape or two line outputs; switchable tape monitoring/dubbing. Graphic equalizer: ± 15 dB control/octave; spectrum-level control and LEDs for input-to-output balancing; EQ S/N 114 dB at full output; Tape 2 jack duplicated on front panel; click-stop stepped volume control; subsonic filter \$699

PE2217R Stereo Preamp

Combines two discrete phono preamplifiers, discrete line amplifier, pushbutton patching, and equalizer. Features interlocked pushbuttons; discrete-octave equalization control (10 octaves/ch, ± 12 dB); full spectrum level control/channel; zero-gain equalization balance; two or three tape deck dubbing capability with front-panel automatic LED tape monitoring input/out jacks; line/tape equalization selector; auto equalizer-defeat; two headphone jacks; mono selector; reverse/stereo mode; four switched and two unswitched ac outlets. Specifications: frequency response 5-100,000 Hz ± 0.25 dB (high level), 20-20,000 Hz ± 0.5 dB (phono); THD and IM dist. 0.05% at 1 V; gain 63 dB (phono), 21 dB (high level); output impedance 600 ohms max. Equalizer: S/N 96 dB; frequency response 10-100,000 Hz ± 0.25 dB. Silver/gold front panel in walnut side panels; 6" H \times 19" W \times 11" D. \$549
PE2217. Same except silver/gold anodized front-panel; 5 1/4" H \times 19" W \times 11" D \$549

SPECTRO ACOUSTICS

217R Preamp

Straightline design with no tone controls or equalization, for ultra-linear output response; front-panel-accessible cartridge-loading adjustments with 16 combinations to match and load most magnetic phono cartridges; high-level switching section permits choice of source, bidirectional-bypass copying in the tape-monitor section and stereo or mono operation; response: phono, 20-20,000 Hz ± 0.5 dB; high-level, 20-20,000 Hz ± 0.1 dB, 5-100,000 Hz ± 1 dB; dist. 0.03% THD, 0.0075% IM at rated output; rack-mountable; 3 1/2" H \times 19" W \times 7 1/2" D. \$285

TECHNICS

SU-9070 Preamp

Stereo dc preamp features built-in moving-coil head amp; three tape monitors with multi-way tape



dubbing; subsonic filter. Output voltage/impedance 20 V/600 ohms (pre out max.), 150 mV (rec out tape); frequency response 20-20,000 Hz $+0/-0.1$ dB (tuner, aux.), RIAA ± 0.2 dB (phono); S/N (IHF A) 88 dB (phono MM), 72 dB (phono MC), 105 dB (tuner, aux.); THD 0.004%; input sensitivity/impedance 2.5 mV/47,000 ohms (phono MM), 60 μ V/50 ohms (phono MC), 150 mV/47,000 ohms (tuner, aux.); max. phono input voltage (1 kHz, rms) 350 mV (phono MM), 8 mV (phono MC); 120-V ac, 60 Hz, 30 W; 3 3/32" H \times 19" W \times 14 17/32" D .. \$460

THRESHOLD

NS 10 Preamp

Wide-bandwidth class A discrete design stereo preamp with 50,000,000-Hz active circuit bandwidth and 1,500,000-Hz bandpass capability; ac-



tive input devices biased to current levels and increases magnetic phono input transistor overload to 1 V at 20,000 Hz and 2 V at 100,000 Hz; tantalum capacitors and metal film resistors in signal path; sealed gold-contact switch modules; dual segment volume control individually adjusted for 0.5% tracking between segments; adjustable dual gain controls; two-deck selector switch with two-way tape dubbing. Frequency response 1.5 Hz-1 MHz; THD and IM dist. 0.01%; slew rate 100 V/ μ sec; S/N 85 dB (A weighted); phono overload 320 mV; 3.5" H \times 19" W \times 9.69" D \$1045

SL 10 Preamp

Direct-coupled cascode/class A stereo preamp features built-in moving-coil pre-preamp with separate power supply; discrete design with tantalum and polystyrene capacitors in signal path; 20,000- μ F supply regulation; individually adjustable rear-panel impedance and capacitance settings for phono input; tape monitor switch; channel balance control. Frequency response ± 0.5 dB (RIAA phono), 0-500,000 Hz $+0/-3$ dB (high level); THD 0.012% from 20-20,000 Hz (phono), 0.003% from 20-5000 Hz (high level); SMPTE IM dist. 0.006% at 1 V out (phono), 0.008% at 10,000 Hz, 5 V out (high level); S/N (A weighted) 90 dB (phono); phono overload 320 mV at 1000 Hz; slew rate 150 V/ μ sec; 2.62" H \times 19" W \times 8" D..... \$943

TOSHIBA

C15 Micro Stereo Preamp

Features high-gain dual FET dc amplifiers; bass and treble controls with tone defeat and EQ direct; mono, subsonic, and tape/source monitor switches; input selector. Input sensitivity/impedance 2.5 mV/47k ohms (phono 1 and 2), 150 mV/47k ohms (tuner, aux., tape); phono overload 300 mV rms at 1000 Hz; frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 10-100,000 Hz $+0/-2$ dB (tuner, aux., tape); dist. 0.01% at 1 V out; S/N (IHF A) 88 dB (phono), 106 dB (tuner, aux., tape); silver finish; 2.1" H \times 10.1" W \times 8.2" D \$300

C15B. Black finish..... \$310

SY-665 Stereo Preamp

Features built-in moving-coil FET head amp and two ics for tone control amp; bass and treble controls with tone defeat; subsonic filter; loudness and mode switches; two-way tape dubbing and monitoring; mic mixing; input selector with LEDs. Input sensitivity/impedance 2.5 mV/47k ohms (phono MM), 0.12 mV/39 ohms (phono MC), 150 mV/47k ohms (tuner, aux., tape); phono overload at 1000 Hz 250 mV (MM), 10 mV (MC); frequency response ± 0.3 dB from 20-20,000 Hz (phono RIAA), 7-40,000 Hz ± 1 dB (tuner, aux., tape); dist. 0.01% (aux.); S/N (IHF A) 80 dB (MM), 65 dB (MC), 95 dB (aux., tape, tuner); 3.8" H \times 16.5" W \times 9.3" D \$200

SY-335 Stereo Preamp

Features twin-tape monitoring/duplicating facilities; 41-position click-stop volume control; microphone mixing with control/switch; mode and loudness switches; phono equalization amp. Max. output 1.0 V; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/47k ohms (tuner, aux., tape 1, 2); THD 0.1%; 150 mV phono overload;

RIAA deviation ± 0.5 dB (phono), 20-40,000 Hz ± 1 dB (aux.); S/N 80 ("A" weighted); three ac outlets. 3 1/3" H \times 16 1/2" W \times 9 1/2" D \$120

TRIODE LABORATORY

MENTAT Stereo Preamp

Vacuum-tube high-resolution preamp with Class A cascode phono input section and Class A single-ended voltage high-level section; actively regulated high voltage power supply; actively regulated filament supply with timing network; switchable high/low network. Input impedance 47.5k ohms (phono), 100k ohms (high level); gain 44.5 dB (phono), 15 dB (high level); rated output 2 V from 20-20,000 Hz, 20k ohms (phono), 2.5 V from 1.5-200,000 Hz, 20k ohms (high level); frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 1.5-200,000 Hz $+0/-1.5$ dB (high level); THD and IM dist. 0.05% at rated output; hum and noise below 5 mV in at 1000 Hz -65 dB (phono unweighted), -76 dB (high level, unweighted); phono overload 380 mV at 1000 Hz, 100k-ohm-load, 3.5" H \times 19" W \times 9.5" D \$1250

SALESIA Stereo Preamp

Vacuum-tube stereo preamp; filament and plate voltage power supplies; input sensitivity 2 mV (phono), 0.2 V (high level); phono overload 300 mV; phono input impedance 47.5k ohms; frequency response 1.5-100,000 Hz $+0/-1.5$ dB; THD and IM dist. 0.05%; S/N 70 dB unweighted; 3.5" H \times 15" W \times 7" D \$600

YAMAHA

C-2a Preamp

DC preamp features low-noise moving-coil cartridge head amplifier and low-noise dual FET phono equalizer with current noise reduction circuit and tone control amplifier circuitry; bass and treble controls; subsonic filter; -20 -dB audio muting; mode switch; two-way tape dubbing; input selector with separate phono load resistance/capacitance selector. Input sensitivity/impedance 2.5 mV/100, 47k, 68k, 100k ohms variable (phono 1 MM), 100 μ V/50 ohms (MC), 2.5 mV/47k ohms (phono 2 MM), 150 mV/47k ohms (aux., tuner, and tape); phono overload 350 mV at 1000 Hz (MM), 10 mV at 20,000 Hz (MC); frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA, MM), ± 0.3 dB from 20-20,000 Hz (MC), 10-100,000 Hz ± 0.2 dB (aux., tuner, tape); THD 0.003% at 5 V out (MM to pre out), 0.01% at 5 V out (MC to pre out), 0.003% at 10-V out (aux., tuner, tape); IM dist. 0.003% at 10 V out (aux., tuner, tape); S/N (IHF A) 104 dB (phono MM), 92 dB (MC), 107 dB (aux., tuner, tape); 2 1/3" H \times 17" W \times 12 1/32" D \$950

C-4 Preamp

Features low-noise dc phono equalizer, moving-coil cartridge head amp, current noise-reduction circuit, and tone control amplifier circuitry; bass and treble controls with turnover frequency controls, tone defeat, and illuminated tone bypass switch; phono input with level control; low and high filter switches; mode buttons; two-way tape dubbing; illuminated -20 -dB audio muting; input selector with separate phono input selector and two phono cartridge load resistance/capacitance selectors; two sets of pre-out terminals on rear panel with front-panel switches. Input sensitivity/impedance 2.5 mV/100, 33k, 47k, 68k, and 100k ohms (phono MM), 100 μ V/50 ohms (MC), 150 mV/47k ohms (aux., tuner, tape); phono overload 285 mV at 1000 Hz (MM), 10 mV at 20,000 Hz (MC); frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 5-100,000 Hz ± 0.5 dB (tuner, aux., tape); THD 0.0035% at 2 V out (MM to pre out), 0.1% at 2 V out (MC to pre out), 0.0035% at 10 V out (aux., tuner, tape), 0.02% at 8 ohms, 12 mW out (phones out); IM dist. 0.005% at 10 V out (aux., tuner, tape); S/N (IHF A) 97 dB (MM), 91 dB (MC), 106 dB (aux., tuner, tape, tone bypass on), 100 dB (tone bypass off); 4 1/2" H \times 17 1/8" W \times 14 3/4" D \$550

2 POWER AMPLIFIERS

AB SYSTEMS

The Four-Ten Power Amplifier

Features solid-state circuitry; RCA multiple emitter power transistors; dual 1/4-in phono jack inputs; dc latch speaker protection; rear-panel input level controls; channel one and two level controls with LED indicator display; remote/sequential ac power control. 205 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.25% THD and IM dist., 410 W bridged into 16 ohms; frequency response 20-20,000 Hz ± 0.25 dB; THD and IM dist. 0.1% from 0.25 W rated power, 20-15,000 Hz; hum and noise -101 dB; input sensitivity/impedance 0.75 V rms/25k ohms; crosstalk 80 dB down at 1000 Hz; 5 1/4" H x 19" W x 10 3/4" D \$1095

205. Similar to The Four-Ten except 100 W/ch continuous under same conditions; no mono bridging .. \$750

ACCUPHASE

P-300 Stereo Power Amplifier

150 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.1% THD (200 W/ch into 4 ohms); frequency response 20-20,000 Hz +0/-0.2 dB; hum and noise 100 dB below rated output; 6" H x 17 1/2" W x 14" D \$850
AWC-1. Walnut case \$50

P-20 Stereo Power Amplifier

70 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.1% THD (100 W/ch into 4 ohms, 35 W/ch into 16 ohms); frequency response 20-20,000 Hz +0/-0.2 dB; hum and noise 100 db below rated output; output load impedance 4, 8, and 16 ohms; subsonic filter 18 dB/octave; cutoff frequency 17 Hz; incorporates two independent power supplies; front-panel stereo headphone jack; dual mounting handles; screw-type speaker terminals; 6" H x 19" W x 13 3/4" D \$750

ACE AUDIO

35 x 2/Super Stereo Power Amplifier

36.5 W/ch into 4 or 8 ohms over 20-20,000 Hz with 0.12% THD; IM dist. 0.1% (full output), 0.05% (1 W output); sensitivity 1 V for rated output; frequency response 20-20,000 Hz ± 0.2 dB at 1 W; hum and noise 90 dB below 36.5 W; rear-panel heatsink and perforated covers for cooling; 3 7/8" H x 14" W x 8 1/2" D \$212
Kit \$150

8000 Subwoofer Mono Power Amplifier

Direct-coupled fully complementary mono amplifier designed to drive out 70-W subwoofer; 70 W continuous into 4 or 8 ohms from 20-10,000 Hz with 0.1% THD and IM dist.; frequency response 15-20,000 Hz ± 0.1 dB; damping factor 70; slew rate 4 V/ μ sec; hum and noise -90 dB; input sensitivity/impedance 1.5 V/50k ohms; 7 1/4" H x 9 1/2" W x 6 1/2" D \$189

ADC

B-200 Power Amplifier

Low-feedback all-FET Class A stereo power amplifier; 100 W/ch continuous into 8 ohms from 5-20,000 Hz with 0.2% THD and IM dist.; slew rate 150 V/ μ sec; sensitivity 1 V \$995

ADCOM

GFA-1 Stereo Power Amplifier

Fully complementary bridged mode amplifier; tor-

oidal transformer; dual power supplies; built-in protection relay and thermal overload switch. 200 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and 0.1% IM dist.; damping factor 200; slew rate 80 V/ μ sec; input sensitivity 1.5 V; black cabinet with vents on all sides; 8 1/2" H x 10 1/2" W x 6 1/2" D \$400

AIWA

SA-P22U Mini Power Amplifier

Mini stereo power amplifier features dc circuitry; toroidal power transformer with dual electrolytic capacitors; five-LED logarithmic power output display; two-speaker switching; self-resetting protection circuit. 30 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.06% dist.; frequency response 20-20,000 Hz ± 0.2 dB; dist. 0.04% at 30 W, 1000 Hz; S/N 95 dB; input sensitivity/impedance 600 mV/47k ohms; damping factor 45 at 1000 Hz, 8 ohms; 2 7/8" H x 8 3/16" W x 8 3/16" D \$210

AMBER BY H&H INTERNATIONAL

Series 70 Power Amplifier

Modular stereo power amplifier with built-in bridging circuit with rear-panel switch for mono operation; passive power supply with two massive filter capacitors; 70 W/ch into 8 ohms, 200 W mono into 8 ohms; THD and IM dist. 0.01%; frequency response 5-100,000 Hz -3 dB; slew rate 20 V/ μ sec; 5 1/4" H x 19" W x 8" D \$475

APT

Apt 1 Power Amplifier

Features dc circuitry; mono bridging; rear-panel speaker load switch (from 2-16 ohms) with front-panel LED readout for adjustment; two-color LED readout for signal at output and overload detection; relay protection. 100 W/ch continuous, both channels driven into 4 or 8 ohms with 0.03% THD; dynamic headroom 3 dB at 4 or 8 ohms; frequency response 0-30,000 Hz +0/-0.5 dB; slew factor 10 at 20,000 Hz; output noise 80 dB below 1 W; crosstalk 70 dB at 1000 Hz between channels; dynamic range 103 dB; input sensitivity/impedance 90 mV rms (1 W)/50k ohms. Gray wrinkle baked enamel finish; 3.12" H x 16.9" W x 10.19" D \$640

Apt 2 Power Amplifier

Class ABD power amplifier with 12-power MOS FETs in output stage and switching-mode power supply to form cascode action; speaker load switch (2-16 ohms); LEO overload, speaker thermal index, and peak voltage level indicators; interchangeable input circuit board for optional inputs. 200 W/ch continuous, both channels driven into 4 or 8 ohms with 0.03% THD approx. \$1450

AUDIO RESEARCH

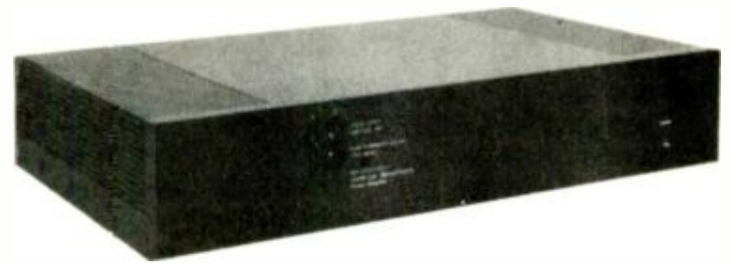
D-350B Stereo Power Amplifier

Linear two-channel power amplifier. Features power-line monitor meter with identified operating ranges; output power monitor meters; built-in speaker line fuse holders; logic circuitry; front-panel power supply fuses; three built-in fans. 350 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.25% THD; IM dist. less than 0.1% at rated output; S/N 110 dB (unweighted); input sensitivity/impedance 1.35 V rms/30,000 ohms. 10 1/2" H x 19" W x 17 1/4" D. \$3500

D-79 Power Amplifier

Vacuum tube power amplifier features cathode current bias adjust with separate controls/ch and LEDs; dual power monitors metered as safe operation/cau-

Real Power for the Real World: The Apt 1 Amplifier



Apt Corporation believes there's only one good reason to create a new product: a genuine need. The Apt 1 Amplifier is just such a product. With 3 dB of Dynamic Headroom, it can deliver as much as *twice* its 100w average rated power (20 Hz-20 kHz @ 0.03% THD) on musical peaks—just as program material so often requires. And, it can deliver this extra performance into any actual loudspeaker, not just on the test bench. The Apt 1 also incorporates new approaches to power supply, driver stage, and protection circuit design, which all contribute to a uniquely *useful* amplifier.

Problem Solving in a Real System: The Holman Preamp



You don't live in an ideal world—neither does your stereo music system. The Holman Preamp is the result of over 2 man-years of research into how and why components behave in real-world hifi systems. As such, it provides an unprecedented balance of features and performance, which combine toward a common goal: *sonic excellence*.

The Holman Preamplifier and the Apt 1 Amplifier; individually or together they make music systems work better, and *sound* better.

For information, check the appropriate box(es) below and send with your name and address to:

Apt Corporation

Box 512
Cambridge, Massachusetts 02139

- Apt 1 Amplifier brochure and the name of your local dealer.
- Holman Preamplifier brochure.
- For an Apt 1 Owner's Manual, please send \$4 (\$5 foreign).

CIRCLE NO. 63 ON READER SERVICE CARD

2 POWER AMPLIFIERS

tion markings; ac voltage meter; two front-panel line/fuse out, plate/fuse out, and screen/fuse out



controls. Output 75 W/ch continuous, both channels driven into 4, 8, or 16 ohms from 20-20,000 Hz with 1.0% THD; power bandwidth 15-40,000 Hz -3 dB; IM dist. 0.5% (SMPTE); S/N 90 dB below rated output (wide band, unweighted), 80 dB below rated output (line); input sensitivity/impedance 0.75 V rms/80k ohms nominal; damping factor 6; output regulation 1.75 dB, 16-ohm load to open circuit; includes rack-mount handles; 10 1/2" H x 19" W x 17 1/4" D..... \$3250

D-110B Power Amplifier

Linear two channel bridged mono amplifier. Features power-line monitor meters; built-in speaker line fuse holders; front-panel power supply fuses; three built-in fans. 100 W/ch continuous, both channels driven into 8 ohms*from 1-20,000 Hz at 0.25% THD; IM dist. less than 0.05%; S/N 100 dB (unweighted); input sensitivity/impedance 1.5 V rms/30,000 ohms; load impedance 4 ohms; damping factor more than 200 at rated power. 10 1/2" H x 19" W x 17 1/4" D..... \$2750

D-100B Stereo Power Amplifier

100 W/ch continuous, both channels driven into 8 ohms over 1-20,000 Hz with 0.25% THD and 0.1% IM dist.; S/N 100 dB (phono, 10 mV input); sensitivity 1.5 V rms (high level); load impedance 4 ohms (min.); damping factor 200; 5 1/4" H x 19" W x 10 1/2" D \$1495

WC-3. Walnut finished wood cabinet for D-100B.... \$100

D-52B Power Amplifier

Linear two-channel power amplifier. Features built-in switch for bridged mono operation; front-panel power supply fuses. 50 W/ch continuous, both channels driven into 8 ohms from 1-20,000 Hz at 0.25% THD; IM dist. less than 0.1%; S/N 90 dB (unweighted); input sensitivity 1.1 V rms/30,000 ohms; damping factor 500 min. at rated power and load. 5 1/4" H x 19" W x 10 1/2" D. \$1195

WC-3. Walnut-finished wood cabinet for D-52B \$100

AUDIO SCIENTIFIC by SUPEREX

1500 Power Amplifier

Class A power amplifier; features separate left and



right LED power output bar graph display with three-LED clipping and display range selector; 85 W/ch

continuous; S/N 115 dB (A weighted); dynamic headroom 0.8 dB; clipping headroom 3.4 dB. \$750

1560 Power Amplifier

Class A stereo power amplifier; 50 W/ch continuous; frequency response 8-150,000 Hz ±0.5 dB; S/N 115 dB (A weighted); dist. 0.005% at 50 W ... \$550

AUDIRE

DM 700 Power Amplifier

Combines two bridged mono amplifiers on one chassis. Features dual power output meters with VU meter range selector switch and peak-clipping LED indicators. 350 W/ch, both channels driven into 8 ohms from 20-20,000 Hz, 500 W into 4 ohms; THD and IM dist. less than 0.05% at 350 W; frequency response at rated power 10-20,000 Hz ±0.2 dB; hum and noise -110 dB; slew rate 80 V/μsec min.; damping factor 300; input sensitivity/impedance 1.15 V/27k ohms. 5 3/4" H x 19" W x 17" D \$1400

2M Power Amplifier

Features clipping LEDs, twin VU meters, VU meter range selector switch, and ac switch; 100 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz, 120 W/ch into 4 ohms; THD and IM dist. less than 0.05% at 100 W; power bandwidth 10-20,000 Hz ±0.2 dB; frequency response 10-60,000 Hz ±0.2 dB at 1 W; hum and noise -100 dB; damping factor 150; input sensitivity/impedance 1.0 V rms/33k ohms. Includes front-panel rack mount; 5 1/4" H x 15" W x 13" D ... \$632

Model 2. Similar to 2M minus VU meters with selector switch and ac switch \$495

Crescendo Power Amplifier

Discrete power amplifier features dual 12-LED vertical logarithmic power output display. 60 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist.; frequency response 10-20,000 Hz ±0.2 dB; hum and noise -100 dB; slew rate 40 V/μsec; damping factor 150; input impedance 51,000 ohms; 5.25" H x 19" W x 9" D \$350

BGW

Model 410 Power Amplifier

200 W continuous into 8 ohms; frequency response 20-20,000 Hz +0/-0.2 dB; THD 0.02%; IM dist. 0.02%; residual hum and noise -110 dB; slew rate 40 V/μsec.; rise time 3 μsec; input sensitivity 2 V for rated output; high speed relay activated arc-interrupter speaker protection; four-position speaker selector; low-impedance headphone jack; two input sensitivity controls; meter display of average responding LEDs (10 on each of two meters) with three-position (-20, -10, and 0 dB) meter sensitivity switch; 5 1/4" H x 19" W x 11 1/4" D \$899

Model 210. Similar to Model 410 except 100 W/ch continuous and input sensitivity 1.4 V for 100 W. Features similar minus input sensitivity controls and headphone jack \$659

Cabinet designed for either 410 or 210 \$45

BOZAK

929 Audio Power Amplifier

150 W/ch continuous sine wave into 8 ohms (20-20,000 Hz) at 0.2% THD; response at full output 20-20,000 Hz +0 dB/-0.2 dB; THD at 1000 Hz 0.1%; response 3-100,000 Hz +0/-3 dB (at 1 W); damping factor 100 at 20 and 1000 Hz; S/N (unweighted) 100 dB; input impedance 35,000 to 100,000 ohms (100k pot); two power meters; matte black front panel; optional walnut veneer enclosure extra; 7" H x 17 3/4" W x 12" D \$925

929-V. Same as 929 without the meters \$825

939 Audio Power Amplifier

70 W/ch continuous sine wave into 8 ohms (20-20,000 Hz) at 0.2% THD; frequency response 20-20,000 Hz +0/-0.2 dB; S/N (unweighted) 90

dB; subsonic switch; damping factor 100; input level controls; 32 dB gain; black front panel; optional walnut veneer enclosure extra..... \$525

Professional Line

CMA-2-80 Power Amplifier

Stereo power amplifier features all-silicon solid-state circuitry; open and short-circuit protection; overheat protection. 80 W/ch continuous, 160 W continuous total output; frequency response 20-20,000 Hz ±0.5 dB; HD 0.5% from 20-10,000 Hz; noise -80 dB below rated output; input sensitivity 0.7 V for rated output; anodized brushed aluminum finish; 5 1/4" H x 19" W x 12" D \$740

CMA-1-80. Mono version of CMA-2-80; frequency response 20-20,000 Hz ±1 dB; input sensitivity 1.0 V..... \$575

CMA-2-65 Power Amplifier

Dual power amplifiers feature direct-coupled circuitry; electronically protected output; overheat protection. 65 W/ch continuous into 8 ohms, 130 W total; frequency response 20-20,000 Hz +0/-1 dB; THD 0.1% at 1000 Hz; IM dist. 0.2% (SMPTE); damping factor 100 at 20 and 1000 Hz; rise time 3 μsec; S/N 90 dB unweighted; input sensitivity 0.6 V; 5 1/4" H x 19" W x 10 1/4" D..... \$575

BRYSTON

4B Stereo Power Amplifier

200 W/ch into 8 ohms (400 W/ch into 4 ohms, 800 W bridged into 8 ohms) over 20-20,000 Hz with 0.05% THD and 0.025% IM dist. at 200 W/ch; S/N 100 dB; crosstalk below 100 dB; slew rate 60 V/μsec; damping factor 500 (8 ohms, 20 Hz); input sensitivity/impedance 1.25 V/50,000 ohms; has bridging switch; each channel separated back to line cord; LED pilot light and overdrive (clipping) indicators; 5 1/4" H x 19" W x 13 1/2" D..... \$1295

3B Stereo Power Amplifier

100 W/ch into 8 ohms (200 W/ch into 4 ohms, 400 W bridged into 8 ohms) over 20-20,000 Hz with 0.05% THD and 0.025% IM dist. at 100 W/ch; S/N 100 dB; crosstalk below 100 dB; slew rate 60 V/μsec; damping factor 500 (8 ohms, 20 Hz); input sensitivity/impedance 1 V/50,000 ohms; has bridging switch; each channel separated back to line cord; LED pilot light and overdrive (clipping) indicators; 5 1/4" H x 19" W x 9" D..... \$795

2B Stereo Power Amplifier

50 W/ch into 8 ohms (100 W/ch into 4 ohms, 200 W bridged into 8 ohms) over 20-20,000 Hz with 0.05% THD and 0.025% IM dist. at 50 W/ch; S/N 100 dB; crosstalk below 100 dB; damping factor 500 (8 ohms, 20 Hz); input sensitivity/impedance 0.75 V/50,000 ohms; has bridging switch; each channel separated back to line cord; LED pilot light and overdrive (clipping) indicators; 3 1/2" H x 19" W x 10" D \$495

CARVER

C-500 Power Amplifier

Features FET signal circuitry and extra output transistors; dual moving LED switchable peak/peak-hold bar graph display with VU ballistics; left/right sensitivity controls with +15 dB sensitivity display switch; LED overload indicator. 251 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.05% THD; IM dist. 0.06% at 200 W; frequency response 1-250,000 Hz ±0.25 dB; S/N 110 dB (A weighted); slew rate 80 V/μsec; dynamic range 70 dB. Brushed champagne gold finish with brown trim; 6 1/4" H x 19" W x 9 1/4" D \$689

M-400 Power Amplifier

Features magnetic field circuitry that eliminates need for oversized heatsinks, power transformers,

and electrolytic capacitors; dual moving LED vertical peak level display with VU ballistics. 200 W/ch



continuous into 8 ohms from 1-20,000 Hz with 0.05% THD and 0.06% IM dist.; frequency response 1-250,000 Hz \pm 0.25 dB; S/N 100 dB (A weighted); slew rate 80 V/ μ sec; dynamic range 50 dB. Brushed champagne gold finish with brown trim; 6 $\frac{3}{4}$ " H \times 6 $\frac{3}{4}$ " W \times 6 $\frac{3}{4}$ " D \$349

CONRAD-JOHNSON

Vacuum Tube Power Amplifier

Features low-noise parts in audio circuitry and vacuum tube design; LED power indicator; 75 W/ch continuous, both channels driven into 4, 8, or 16 ohms from 30-15,000 Hz with 0.1% THD and IM dist., 150 W mono; frequency response 20-20,000 Hz \pm 0.5 dB; S/N 90 dB \$985

CROWN

M-600 Power Amplifier

Monaural power amplifier features peak/average power meter with LEDs and adjustable thresholds;



changeable input control modules; short, mismatch, open circuit, high line voltage and input overload protection; turn-on delay. 600 W into 8 ohms over 1-20,000 Hz with 0.05% THD and 0.01% IM dist., 1000 W continuous into 4 ohms over 1-15,000 Hz with 0.05% THD; frequency response 0-100,000 Hz \pm 1 dB (1 W); input sensitivity 3.46 V rms \pm 1% for 600 W continuous into 8 ohms; hum and noise 120 dB below rated output; phase response \pm 15 degrees (0-20,000 Hz, 1 W into 8 ohms); damping factor greater than 800; input impedance 25,000 ohms \pm 30% (standard input); 120- and 240-V ac, 50-60 Hz, 80 W (idle), 1000 W (at rated output); fits 19-in standard rack mount; 8 $\frac{3}{4}$ " H \times 19" W \times 16 $\frac{1}{2}$ " D \$2195

M-2000. Consists of two M-600 units coupled together; 2000 W into 8 ohms over 1-15,000 Hz with 0.05% THD and 0.01% IM dist., 1200 W into 16 ohms over 1-20,000 Hz with 0.05% THD; frequency response 0-50,000 Hz \pm 1 dB (1 W into 8 ohms); input sensitivity 3.16 V rms \pm 1% for 2000 W into 8 ohms; hum and noise 115 dB below rated output; phase response \pm 20 degrees (0-20,000 Hz, 1 W into 8 ohms); damping factor greater than 250; 120- and 240-V ac, 50-60 Hz 160 W (idle), 3800 W (at rated output); 17 $\frac{1}{2}$ " H \times 19" W \times 16 $\frac{1}{2}$ " D \$4390

SA-2 Power Amplifier

Features dual-LED input/output comparator display indicators; stereo/mono switch; remote mute; four on-board computers that analyze demand and immediate history of amplifier and load for max. output power; two-speed fan cooling. 220 W continuous into 8 ohms from 20-20,000 Hz with 0.05% THD and 0.01% IM dist; frequency response

0-80,000 Hz \pm 0/-1.5 dB; S/N 110 dB (A weighted); 7" H \times 19" W \times 14 $\frac{3}{4}$ " D \$1595

PSA-2 Power Amplifier

Features dual-channel LED overload, signal, and standby indicators; LED power on; high-impedance balanced inputs; switchable high and low-pass filters (for true bi-amplification); 50 pulse/sec test tone generator; limiter compressor with variable threshold; five-sec turn on delay; mono/stereo switch; two-speed fan cooling. 220 W continuous into 8 ohms from 20-20,000 Hz with 0.05% THD and 0.01% IM dist; frequency response 0-80,000 Hz \pm 0/-1.5 dB at 1 W; S/N 110 dB below rated output; 7" H \times 19" W \times 14 $\frac{3}{4}$ " D \$1495

DC-300A Stereo/Mono Amplifier

Single- or dual-channel power amplifier. Stereo mode: 155 W/ch into 8 ohms over 1-20,000 Hz with 0.05% THD and 0.01% IM dist.; frequency response 0-100,000 Hz \pm 1 dB (1 W into 8 ohms); input sensitivity 1.71 V \pm 2% for 155 W into 8 ohms; hum and noise 115 dB below rated output; phase response \pm 15 degrees (0-20,000 Hz, 1 W); damping factor greater than 750; input impedance 25,000 ohms \pm 30%; short, mismatch, open circuit, thermal, and input overload protection; 120-, 128-, 240-, 248-, and 256-V ac \pm 10%; 50-400 Hz, 40 W (idle), 510 W (at rated output); fits 19-in standard rack mount; includes IOC (input/output comparator); 7" H \times 9 $\frac{3}{4}$ " D \$949
7R. Cabinet \$55

D-150A Stereo/Mono Power Amplifier

Single- or dual-channel power amplifier. Stereo mode: 80 W/ch into 8 ohms over 1-20,000 Hz with 0.05% THD and 0.01% IM dist.; frequency response 0-100,000 Hz \pm 1 dB (1 W into 8 ohms); input sensitivity 1.19 V \pm 2% for 80 W into 8 ohms; hum and noise 110 dB below rated output; phase response \pm 15 degrees (0-20,000 Hz, 1 W); damping factor greater than 400; input impedance 25,000 ohms \pm 30%; short, mismatch, open circuit, thermal, and input overload protection; 120- and 240-V ac \pm 10%, 50-400 Hz, 30 W (idle), 250 W (at rated output); includes IOC (input/output comparator); 5 $\frac{1}{4}$ " H \times 17" W \times 8 $\frac{3}{4}$ " D \$599
5R. Cabinet \$45

PL-1 Power Amplifier

Features LED input-output comparator readout display; mono/stereo switch; 50 W continuous into 8 ohms from 20-20,000 Hz with 0.05% THD; 0.00095% IM dist. at 50 W; frequency response 5-100,000 Hz \pm 0/-3 dB; S/N 110 dB below rated output; 3 $\frac{1}{2}$ " H \times 19" W \times 12 $\frac{1}{4}$ " D \$499

D-75 Power Amplifier

Single- or dual-channel power amplifier. Features two IOCs (input/output comparators), three meter indicators (two signal and one power), and separate signal and chassis grounds. Stereo: 35 W/ch continuous into 8 ohms from 20-10,000 Hz at 0.05% THD, 45 W/ch continuous into 4 ohms from 20-20,000 Hz at 0.05% THD; frequency response 20-20,000 Hz \pm 0.1 dB and 5-100,000 Hz \pm 1.2 dB at 1 W into 8 ohms; IM dist. 0.05% max. from 0.01-0.25 W; slew rate 6 V/ μ sec; damping factor 400 from 0-400 Hz into 8 ohms; rated for 4- and 8-ohm loads, safely handles purely reactive loads; input sensitivity 0.9 V \pm 2% for 35 W into 8 ohms. Mono: 95 W continuous into 8 ohms from 20-20,000 Hz at 0.05% THD; frequency response at 1 W into 16 ohms from 20-20,000 Hz \pm 0.2 dB, from 6-50,000 Hz \pm 1 dB. General: hum and noise 106 dB below rated output from 20-20,000 Hz; phase response \pm 10, -15 degrees from 20-20,000 Hz at 1 W; input impedance \pm 30% at 20,000 ohms (balanced), \pm 30% at 10,000 ohms (unbalanced), \pm 30% at 25,000 ohms (unbalanced phone jack); amplifier output protection volt-amp limiting circuit; ac voltages from 100-240 V \pm 10% between 50-400 Hz; 1 $\frac{3}{4}$ " H \times 19" W \times 3" D.. \$399

DB SYSTEMS

DB-6 Power Amplifier

Features Class A, FET, and digital circuitry; 12 dB/



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CIRCLE NO. 49 ON READER SERVICE CARD

octave subsonic filter; peak-clipping LEDs; electronic clamp (in place of relays). 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.003% THD, 60 W continuous into 4 ohms; THD 0.0008% at 1000 Hz; IM dist. less than 0.002%; frequency response 20-40,000 Hz $\pm 0/-1$ dB; input sensitivity/impedance 1 V/50,000 ohms; S/N 112 dB at 1 V in (A weighted), 96 dB at 1 W into 8 ohms (A weighted); slew rate 15 V/ μ sec; damping factor greater than 400 from 20-1000 Hz, 40 at 20,000 Hz. 4.9" H \times 16" W \times 12.8" D \$595
DB-6M. Similar to DB-6 except bridged mono amplifier with 140 W continuous with 0.008% THD, 225 W continuous into 4 ohms; slew rate greater than 30 V/ μ sec \$650

DENON

POA-1003 Power Amplifier

100 W/ch continuous both channels driven into 4 ohms from 20-20,000 Hz at 0.03% THD, 85 W/ch continuous into 8 ohms; IM dist. 0.02%; power bandwidth 3-70,000 Hz; frequency response 0-100,000 Hz $\pm 0/-1$ dB; input sensitivity/impedance 1 V rms/50k ohms; output impedance 0.04 ohms; damping factor 200 into 8 ohms; S/N 119 dB (IHF "A"); 6 dB/octave rolloff. Features cascode coupling at first stage, low noise FET differential amp, complementary ICL/OCL circuitry and left/right power transformer meters. 200 mm H \times 410 mm W \times 285 mm D \$870

ELECTRO RESEARCH

A-75VI Power Amplifier

75 W/ch continuous into 8 ohms from 0-50,000 Hz with 0.1% THD and IM dist., 140 W/ch into 4 ohms; power bandwidth 0-400,000 Hz into 8 ohms; linear frequency response 0-200,000 Hz -0.3 dB; overload recovery 2.5 μ sec; rise time 2.7 μ sec; slew rate 105 V/ μ sec; input sensitivity/impedance 1.4 V rms/100,000 ohms (47 pF); output voltage ± 40 ; S/N 100 dB (unweighted); features digital time meter for total operating hours; calibrator with input trim knobs to match A-75 to preamp or drive source; microswitch-activated power switch; load 1/2, normal/supply, standby, and reset/frequency indicators; 7" H \times 19" W \times 18" D \$2185

EUMIG USA

M-1000 Power Amplifier

Time-processed dc circuitry with high-speed transistors in driver and output stages; switchable ca-



pacitor for electrostatic speakers; features dual 12-LED calibrated peak power display with X0.1 and X1 meter range selector, two-speaker switches, -30 dB attenuator, and left/right volume control. 100 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.0075% THD; frequency response 0-200,000 Hz ± 1 dB; S/N 105 dB; damping factor 120 at 8 ohms, 1000 Hz; channel separation 70 dB from 20-30,000 Hz; matte black or chrome finish; 19-in rack-mount face plate \$795

DAVID HAFLER

DH-200 Power Amplifier Kit

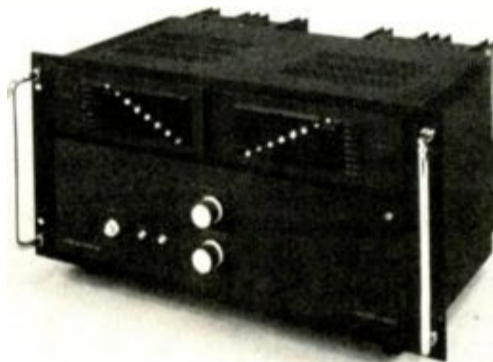
Features class AB output stages and symmetrical

mirror-image complementary push-pull input-to-output circuitry; incorporates two assembled and tested amplifier modules; has mono bridging capability to 300-W conversion; 100 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD; frequency response 1-100,000 Hz -3 dB at 1 W; damping factor 150 at 1000 Hz, 8 ohms; slew rate 30 V/ μ sec; rise time 2.5 μ sec; input sensitivity/impedance 1.5 V rms/22,000 ohms; available in kit or assembled form. Kit \$300

HARMAN/KARDON

Citation 16a Power Amplifier

150 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.05% THD; power bandwidth 5-45,000



Hz, frequency response 4-120,000 Hz (1 W/ch); IM dist. 0.05%; damping factor 300 min.; slew rate 30 V/ μ sec; hum and noise -100 dB; separate power supplies for each channel; LED power output display; supplied with metal case; silver or black finish; 9 $\frac{3}{4}$ " H \times 19" W \times 14" D \$699

Citation 16as. Similar to Citation 16a but without LED display; black finish only \$599

Citation RPM. Rack panel mount for 16a and 16as .. \$188

Citation CRM. Floor-standing rack mount for 16a and 16as \$285

Citation 19 Power Amplifier

100 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.08% THD; frequency response 5-45,000 Hz ± 0.5 dB; IM dist. 0.08%; hum and noise -100 dB; damping factor 125; input sensitivity 1.25 V for rated output; may be bridged for 220 W into single 16-ohm load over 20-20,000 Hz with 0.16% THD; 5 $\frac{1}{4}$ " H \times 16" W \times 14 $\frac{3}{4}$ " D \$499

HEATH

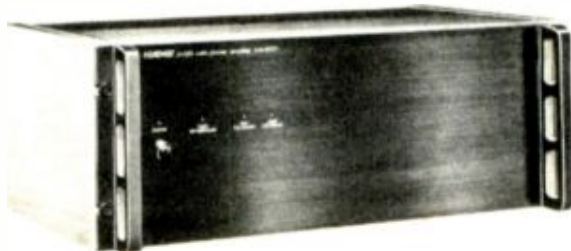
AA-1640 Stereo Power Amplifier

200 W/ch min. continuous into 8 ohms at 0.1% THD over 20-20,000 Hz; frequency response 7-50,000 Hz $\pm 0/-1$ dB, 5-100,000 Hz $\pm 0/-3$ dB; IM dist. 0.1%; input sensitivity 1.5 V for full output; turn-on delay, relay, and fuses to protect speakers; optional peak-reading meters display output in dB and watts into 8 ohms; 7 $\frac{1}{4}$ " H \times 19" W \times 18" D.

Kit \$450
Optional Meters. Kit \$60

AA-1600 Stereo Power Amplifier

Features left/right peak output, high temperature, and power on LEDs; 125 W/ch continuous into 8



ohms from 20-20,000 Hz with 0.05% THD, TIM, and IM dist.; frequency response 7-50,000 Hz ± 1 dB; hum and noise -100 dB; 7 $\frac{1}{4}$ " H \times 19" W \times

13" D.

Kit \$360

AA-1515 Stereo Power Amplifier

70 W/ch min. continuous into 8 ohms at 0.08% THD over 20-20,000 Hz; frequency response 8-45,000 Hz $\pm 0/-1$ dB; input sensitivity 2 mV (phono), 150 mV (aux., tuner, tape, tape monitor, and tape dub); secondary controls concealed behind fold-down front panel; outputs for two speaker pairs; stereo headphone jack; lighted power meters and program legends; 6 $\frac{1}{8}$ " H \times 17 $\frac{1}{2}$ " W \times 14 $\frac{1}{4}$ " D. Kit \$300

AA-1219 Stereo Power Amplifier

15 W/ch into 8 ohms at 0.5% THD over 20-20,000 Hz; phono, tape, tuner, and aux. inputs; tape monitor circuit; 3 $\frac{7}{8}$ " H \times 12 $\frac{3}{4}$ " W \times 12" D. Kit \$120

HITACHI

HMA-8300 Power Amplifier

Features two-stage (low power output and high power output) Class G amplification; pure complementary OCL circuitry; two peak meters; left and right output level controls; subsonic filter; 200 W/ch continuous into 4 or 8 ohms over 20-20,000 Hz with 0.1% THD; frequency response 5-80,000 Hz ± 1 dB; input sensitivity/impedance 1 V/50,000



ohms; load impedance 4-16 ohms; damping factor 50 (20-20,000 Hz, 8 ohms); channel separation 80 dB (1 kHz, 8 ohms); S/N 110 dB (IHF A network); 7 $\frac{3}{8}$ " H \times 17 $\frac{1}{8}$ " W \times 16" D \$800

HMA-7500 Power Amplifier

MOS FET power amplifier with pure complementary dc OCL and two-stage differential circuitry systems. Features calibrated peak power meters, two-speaker switching, protection relay for power resistors and connected speakers, and subsonic filter. 75 W/ch, both channels driven into 8 or 4 ohms from 20-20,000 Hz at 0.01% THD; THD and IM dist. 0.01% at rated output; IHF power bandwidth 5-40,000 Hz at 0.01% THD; frequency response 0-200,000 Hz $\pm 0/-1$ dB; input sensitivity/impedance 1 V/50,000 ohms; load impedance 4-16 ohms; damping factor 60; S/N 120 dB (IHF "A"); channel separation 105 dB at 1000 Hz, 70 dB at 100,000 Hz; output terminal 4-16 ohms (speaker A or B), 8-16 ohms (speaker A + B); one ac outlet. 6 $\frac{1}{2}$ " H \times 18 $\frac{7}{8}$ " W \times 14" D \$500

HMA-6500 Power Amplifier

Features MOS FETs and direct-coupled circuitry; electronic power protection circuitry; dual power meters; two-speaker switching. 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD; IM dist. 0.005% at half-rated output; frequency response 0-100,000 Hz $\pm 0/-1$ dB (dc setting), 5-100,000 Hz $\pm 0/-1$ dB (normal setting), input sensitivity/impedance 1 V/50k ohms; S/N 115 dB (IHF A); damping factor 50 at 1000 Hz, 8 ohms; 6" H \times 17 $\frac{1}{8}$ " W \times 12 $\frac{1}{8}$ " D \$350

JVC

M-7070 Mono Power Amplifier

Features dc circuitry with power MOS FETs in output stage; Class-D power supply; 12-LED peak power bar graph display; two-speaker switching; 120 W into 8 ohms from 20-20,000 Hz with 0.003% THD, 240 W into 4 ohms; frequency response 0-100,000 Hz $\pm 0/-0.5$ dB; S/N 120 dB

(IHF A); damping factor 200 at 8 ohms, 1000 Hz; input sensitivity/impedance 1 V/50k ohms; 6³/₁₆" H × 16³/₁₆" W × 14³/₁₆" D..... \$1600

M-7050 Stereo Power Amplifier

Features Class A ICL dc circuitry; dual illuminated power meters; power supply with electrolytic capacitors; two-speaker switching. 150 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.003% THD and IM dist.; frequency response 0-300,000 Hz +0/-3 dB; S/N 120 dB (IHF A); damping factor 200 at 1000 Hz, 8 ohms; input sensitivity/impedance 1 V/47k ohms; 6³/₁₆" H × 16³/₁₆" W × 16³/₁₆" D..... \$1500



M-3030 "DC" Stereo Power Amp
100 W/ch continuous both channels driven into 8 ohms over 20-20,000 Hz with 0.05% THD and IM dist. (130 W/ch continuous into 4 ohms); frequency response 0-100,000 Hz +0/-1 dB (1 W, "Direct" input); input sensitivity/impedance 1 V/50,000 ohms or more; S/N (IHF A) 116 dB; damping factor 75; output impedance 4-16 ohms; 6³/₁₆" H × 16³/₁₆" W × 11³/₁₆" D..... \$730

KENWOOD

Audio Purist Group

L-09M Single-Channel Power Amp

300 W continuous into 8 ohms over 20-20,000 Hz with 0.02% THD; IM dist. 0.007%; frequency response 0-100,000 Hz +0/-2 dB; residual noise less than 35 μV; S/N 120 dB; triple push-pull class AB full complementary symmetry circuitry; chimney-type structural heat sinks; gold-plated screw-type pin plugs with special audio cable for preamp connection; remote power switch for control by L-07CII control amplifier; 6¹/₂" H × 19" W × 16¹/₈" D..... \$700

L-07MII Power Amplifier

Features dc circuitry; single-channel power supply system; direct-drive method with short 1-m speaker cable for close positioning of power amp and speakers; pure complementary symmetrical push-pull circuitry with dual-gate FETs in input stages and constant-current supplies; gold-plated plugs and connectors; full protection circuitry. Output 150 W minimum continuous into 8 ohms from 20-20,000 Hz with 0.007% THD; IM dist. 0.003%; frequency response 0-600,000 Hz +0/-3 dB; S/N 120 dB short-circuited; damping factor 120 from 0-20,000 Hz, 8 ohms; slew rate ±170 V/μsec; rise time 0.55 μsec at ±1, 20, or 40 V; input sensitivity/impedance 1 V/50k ohms; 6³/₁₆" H × 7¹/₈" W × 15¹/₁₆" D..... \$600

L-05M. Similar to L-07MII except 100 W continuous into 8 ohms with 0.005% THD; IM dist. 0.001%; damping factor 150 from 0-20,000 Hz, 8 ohms..... \$425

LUX

M-12 Stereo Power Amplifier

Direct-coupled stereo power amplifier. Features independent power supply for right/left channels; DML-IC to suppress dc drift; input capacitor in/out selector; attenuator for both channels. 80 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.006% THD and IM dist.; frequency response 0-100,000 Hz -1 dB; input sensitivity/impedance 600 mV/20,000 ohms; S/N better than 110 dB (IHF "A"); channel separation 80 dB; damping factor 150 into 8 ohms at 1000 Hz. 3³/₄" H × 17³/₁₆" W × 12¹/₁₆" D..... \$795

B-12 Mono Power Amplifier

Direct-coupled mono power amplifier. Features power supply for left/right channels; DML-IC to suppress dc drift; input capacitor in/out selector; input attenuator. 150 W continuous into 8 ohms from 20-20,000 Hz with 0.006% THD and IM dist.; frequency response 0-100,000 Hz -1 dB; input sensitivity/impedance 900 mV/20,000 ohms; S/N better than 110 dB (IHF "A"); damping factor 120 into 8 ohms at 1000 Hz. 3³/₄" H × 17³/₁₆" W × 12¹/₁₆" D..... \$645

Laboratory Reference Series

Luxman 5M21 DC Stereo Power Amp

Features pure dc design; class A/B output stage; separate dual polarity supplies for each channel; speaker and amplifier protection circuits; electrostatic/normal speaker switch. 100 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.008% THD and IM dist.; frequency response 0-100,000 Hz +0/-1 dB; damping factor 80 (8 ohms); input sensitivity 890 mV; input impedance 50,000 ohms; residual hum and noise 0.1 mV; crosstalk -90 dB (1 kHz); S/N (IHF A) 120 dB; slew rate 30 V/μsec; 5.8" H × 17.7" W × 16" D..... \$1295

MARANTZ

300DC Power Amplifier

Fully complementary, dc amplifier. 152 W/ch continuous into 8 ohms at 0.03% THD, 190 W/ch continuous into 4 ohms from 20-20,000 Hz at 0.05% THD; features dc circuitry for zero phase-shift distortion; two illuminated 3¹/₄-in VU meters; separate left/right gain controls; LED peak indicators; ac-dc input coupling switch. 5³/₄" H × 16³/₈" W × 11¹/₁₆" D..... \$725

170DC Power Amplifier

Fully complementary, dc amplifier. 86 W/ch continuous into 8 ohms at 0.03% THD, 108 W/ch continuous into 4 ohms from 20-20,000 Hz at 0.05% THD; features dc circuitry for zero phase-shift distortion; two illuminated 3¹/₄-in VU meters; separate left/right gain controls; LED peak indicators. 5³/₄" H × 16³/₈" W × 11¹/₁₆" D..... \$450

MERIDIAN by ANGLO AMERICAN

103D Stereo Power Amplifier

Fully complementary and cascade-type circuitry; dual power supplies; 45 W/ch into 8 ohms from 20-20,000 Hz with 0.1% THD and IM dist.; S/N 90 dB (CCIR); chocolate brown textured enamel finish with gold-blocked lettering; 4" H × 11" W × 12" D..... \$699

103. Similar to 103D except has one power supply; 35 W/ch under same conditions; 2" H × 5.5" W × 12" D..... \$485

105 Mono Power Amplifier

Has outboard power supply that may be collated next to speakers; full electronic protection; 100 W continuous into 8 ohms from 20-20,000 Hz with 0.1% THD and IM dist.; S/N 90 dB (CCIR); chocolate brown textured enamel finish with gold-blocked lettering; 2" H × 11" W × 12" D..... \$449

METRON

A-4000 Power Amplifier

Features two illuminated peak power meters calibrated to 50 dB; level controls adjustable in 1-dB increments; two input switches with LED; A/B



speaker selector switches with LED; dimmer switch; two headphone jacks. 350 W continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist., 550 W continuous into 4 ohms; frequency response 2.5-200,000 Hz -3 dB, 5-100,000 Hz -1 dB; S/N greater than 115 dB (A weighted); slew rate 50 V/μsec; damping factor min. 200; nominal input sensitivity/impedance 2.0 V/10,000 ohms. 7.87" H × 18.9" W × 18.5" D..... \$1600

M-200 Power Amplifier
Features illuminated power averaging meters calibrated to +3 dB at clipping point; stepped 2-dB level controls; protection indicator. 125 W continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist., 240 W continuous into 4 ohms; frequency response 2500-200,000 Hz -3 dB, 5-100,000 Hz -1 dB; S/N greater than 105 dB (unweighted); slew rate 70 V/μsec; damping factor min. 175 at 100 Hz into 8 ohms; input sensitivity/impedance 1.4 V/10,000 ohms. 5.875" H × 19" W × 13" D..... \$600

MITSUBISHI

DA-A15DC Dual-Mono Power Amplifier

Direct-coupled and can amplify dc signals; 150 W/ch into 8 ohms from 20-20,000 Hz with 0.01%



THD; IM dist. 0.008% at rated power; frequency response 20-20,000 Hz ±0.1 dB at rated power; input sensitivity/impedance 1 V variable/50,000 ohms; damping factor 100; channel separation 100 dB at 1000 Hz, 80 dB at 20,000 Hz; S/N (IHF "A") 123 dB; 6³/₄" H × 16³/₄" W × 11¹/₄" D..... \$700
DA-A10DC. Similar to DA-A15DC, but 100 W/ch into 8 ohms; S/N (IHF "A") 122 dB..... \$470
DA-A7DC. Similar to DA-A10DC except 75 W/ch under same conditions; 6³/₄" H × 16³/₄" W × 9¹/₄" D..... \$330

DA-M10. Power output level meter unit for DA-A15DC, DA-A10DC, and DA-A7DC amplifiers; power amplifier function controls on meter unit front panel; 6³/₄" H × 16³/₄" W × 4¹/₈" D..... \$170

M-A01 Micro-Power Amplifier

70 W/ch continuous, both channels driven into 8 ohms from 15-20,000 Hz at 0.01% THD; THD 0.006% at 1 W/ch; IM dist. 0.008% at rated power; power bandwidth 10-60,000 Hz (IHF) at 0.05% THD; frequency response 20-20,000 Hz ±0.1 dB at rated power; input sensitivity/impedance 1 V/50k ohms; damping factor 100 from 20-20,000 Hz; S/N at rated power 123 dB closed circuit (IHF "A"); slew rate 30 V/μsec. Features dc amplification, peak-level LED indicators, and large heat sinks. 5¹/₈" H × 10³/₈" W × 9³/₈" D..... \$500

NAIM by AUDIOPHILE SYSTEMS

NAP 250 Power Amplifier

Features gain decoupling capacitor and passive single pole filter with no slew rate limit within bandwidth; heavy aluminum extruded heatsink; toroidal main transformers; four regulated power supplies. 70 W continuous into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; frequency response 5-40,000 Hz ±3 dB; transient capability 400 VA; sensitivity 1.6 V; impedance 22k ohms; can drive reactive loads with phase angles from -90° to +9° with no appreciable distortion change; 5" H × 17" W × 12" D..... \$2000

NAP 160. Similar to NAP 250 except has built-in 24-V regulated power supply (powers Naim

2 POWER AMPLIFIERS

preamps); 50 W under same conditions; transient capability 250 VA; sensitivity 1.4 V \$1070

NAKAMICHI

620 Stereo Power Amplifier

100 W/ch continuous sine wave into 8 ohms over 5-20,000 Hz with 0.01% THD and 0.002% IM dist.; frequency response 5-100,000 Hz ± 0.5 dB; S/N 120 dB (IHF A); class B operation with "complete-mirror" push-pull circuitry; complete speaker and power transistor protection; peak indicating lamps with selectable triggering points; 6 $\frac{3}{4}$ " H \times 15 $\frac{3}{4}$ " W \times 9 $\frac{3}{8}$ " D..... \$740

BA-100. Self-powered unit permits bridging of Nakamichi 420 and 620 power amplifiers for monaural operation; single unit connects stereo outputs of preamplifier to two power amplifiers for stereo operation; bridged 620 is rated at 350 W min. continuous sine wave into 8 ohms over 5-20,000 Hz with 0.05% THD, bridged 420 is rated at 120 W min. continuous sine wave into 8 ohms over 5-20,000 Hz with 0.05% THD; bridged Nakamichi amplifiers are stable with loads of 8 ohms or more; 2 $\frac{1}{4}$ " H \times 7 $\frac{1}{2}$ " W \times 3 $\frac{3}{4}$ " D..... \$75

BA-150. Same as BA-100 but powered by PS-100 Power Supply \$65

PS-100 Power Supply. Provides ± 10 V dc to operate the BA-150 and other Nakamichi BlackBox Series components; can power up to 6 components.... \$75

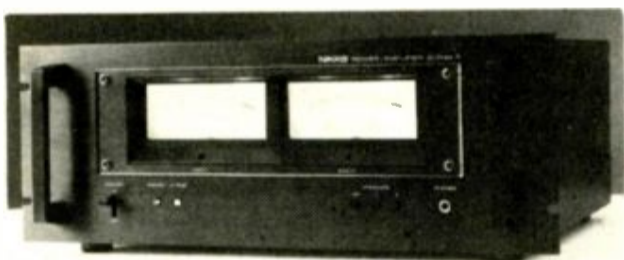
420 Stereo Power Amplifier

50 W/ch min. continuous sine wave into 8 ohms over 5-20,000 Hz with less than 0.02% THD and 0.002% IM dist.; frequency response 5-50,000 Hz $+0/-1$ dB; S/N 110 dB (IHF A); damping factor 100; unconditional load stability; full amplifier and loudspeaker protection; 3 $\frac{3}{32}$ " H \times 16" W \times 8 $\frac{7}{8}$ " D..... \$390

NIKKO

Alpha VI Power Amplifier

DC stereo power amplifier features mono bridging; pair of FETs coupled to cascode amp and current



source and differential amp coupled to cascode amp and current mirror and triple Darlington configuration with four parallel SEPP output stages; separate power supplies and regulated power supply for input and voltage translator stages; dual peak power meters; A-B speaker switching; two-speed cooling fan; power limiters and wide-gap relay protection circuitry with LED overload and high-temperature indicators. Output 300 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.01% THD and IM dist.; 650 W bridged with 0.02% THD; damping factor 150 at 8 ohms, 1000 Hz; S/N 115 dB (IHF A); input sensitivity 1 V; matte black finish; 7 $\frac{3}{16}$ " H \times 19" W \times 18 $\frac{3}{16}$ " D.... \$1400

Alpha III Power Amplifier

Features dc MOS-FET transistors; front-panel logarithmic LED readouts for left and right channels; built-in protection circuitry. 80 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.008% THD; IM dist. 0.01%; S/N 115 dB ("A"); damping factor 80 into 8 ohms; rack mountable; 5 $\frac{1}{8}$ " H \times 19" W \times 11 $\frac{1}{16}$ " D \$540

Alpha II Power Amplifier

Features two VU meters with four-button range con-

trol (0, 6, 12, 24 dB); switchable two-speaker operation; relay and speaker protection circuitry; exterior heat sinks. 110 W/ch continuous, both channels driven into 8 ohms over 20-20,000 Hz with 0.03% THD and IM dist.; frequency response 5-100,000 Hz; S/N (IHF A) 110 dB; rack mountable; 5 $\frac{1}{2}$ " H \times 19" W \times 12 $\frac{7}{8}$ " D..... \$480

ONKYO

M-505 Stereo Power Amplifier

Features two mono amplifiers with own power supply; large heatsinks; dc amplifier circuitry; relay-operated protective circuit; three-step low-cut filter; power, cutoff frequency, and left/right level adjuster controls; "P" input and speaker outputs. 105 W/ch continuous, both channels into 8 ohms over 20-20,000 Hz with 0.05% THD (140 W/ch into 4 ohms); IM dist. 0.05%; damping factor 100 (8 ohms, 1 kHz); frequency response 0-150,000 Hz $+0/-1.5$ dB; input sensitivity 1.5 V; input impedance 100,000 ohms; load impedance 4-16 ohms; S/N 110 dB (IHF A); embossed vinyl over metal cabinet. 6 $\frac{1}{2}$ " H \times 17 $\frac{3}{4}$ " W \times 12 $\frac{1}{16}$ " D \$580

OPTONICA

SX-9305 Power Amplifier

Features three-color-LED power output bar graph display; graphic spectrum analyzer; two LEDs for protection circuitry; two-speaker switching; detented volume control. 100 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.01% THD; ebony faceplate..... \$850

PHASE LINEAR

D-500 Series Two Power Amplifier

505 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.09% THD, 800 W continuous into 4 ohms at 1000 Hz; IM dist. 0.09%; damping factor 1000/min; S/N 110 dB (IHF "A"). Features dual LED peak-responding meters; two input sensitivity controls; high/low impedance operating modes; high frequency limiters; automatic speaker safeguard system. 7" H \times 19" W \times 15" D \$1500

700 Series Two Stereo Power Amplifier

360 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.09% THD and IM dist.; frequency response 0-40,000 Hz (1 W, direct-coupled inputs); sensitivity 1.2 V; hum and noise -110 dB; load impedance 4-16 ohms. Features peak-responding LED meters, dual channel controls for input sensitivity; light brushed gold, anodized panel; 7" H \times 19" W \times 10" D..... \$950
Walnut side panels \$50

400 Series Two Stereo Power Amplifier

210 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.09% THD and IM dist.; frequency response 12-40,000 Hz (1 W); S/N 110 dB (IHF "A"); load impedance 4-16 ohms; sensitivity 1.0 V. Features peak-responding LED meters; individual channel controls for input sensitivity; light brushed gold anodized panel. 7" H \times 19" W \times 10" D... \$650
Walnut side panels \$50

300 Series Two Power Amplifier

Features direct-coupled mirror-image drive circuitry and fully complementary output stage; dc speaker protection and output relay; power semiconductor. 120 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.009% THD and 0.005% IM dist.; frequency response 11-190,000 Hz $+0/-1$ dB; S/N 110 dB (IHF A weighted); damping factor 330; slew rate 110 V/ μ sec; rise time 1.0 μ sec (small signal); input sensitivity/impedance 0.88 V rms/49k ohms; 3 $\frac{1}{2}$ " H \times 19" W \times 11 $\frac{1}{4}$ " D \$450

PHILIPS

AH 578 Stereo Power Amplifier

Features switchable subsonic filter; function dis-

play; step detent level controls; memory lock; two output meters; thermal and speaker protection. 210 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.06% THD; IM dist. 0.04% at rated power; frequency response 10-30,000 Hz ± 0.15 dB; separation 60 dB (1 kHz); damping factor 100 (8 ohms); S/N 100 dB; input sensitivity 1 V; input impedance 50,000 ohms; silver chassis; 8" H \times 18" W \times 15" D..... \$680
AH5781. Black chassis..... \$700

PIONEER

SPEC-2 Stereo Power Amplifier

250 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.1% THD; frequency response 1-80,000 Hz $+0/-1$ dB; damping factor 70; hum and noise -110 dB (IHF A); impedance selector for 4 or 8 ohms; input sensitivity control; two peak power level meters; built-in surge current control and protection circuits; 6 $\frac{7}{8}$ " H \times 18 $\frac{1}{16}$ " W \times 13 $\frac{3}{16}$ " D \$995

SPEC-4 Stereo Power Amplifier

150 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.01% THD (180 W/ch into 4 ohms with 0.03% THD); IM dist. 0.01% at rated output; frequency response 5-100,000 Hz $+0/-1$ dB; input sensitivity/impedance 1 V/50,000 ohms; load impedance 4-16 ohms; damping factor 100 (8 ohms); hum and noise -115 dB (IHF A). 7 $\frac{3}{8}$ " H \times 18 $\frac{29}{32}$ " W \times 17 $\frac{17}{32}$ " D..... \$795

PS AUDIO

PS Model One Power Amplifier

Class AB power amplifier with front-panel power switch and LED; 80 W continuous into 8 ohms; slew rate 75 V/ μ sec..... \$380

QSC

A 41 Power Amplifier

Features ac-coupled circuitry providing dc and sub-audio protection; dual power supplies; mono-bridging switch; continuous-flow cooling system; high-turbulence-configured heat sink; horizontal stepped input/output rear section with balanced XLR-type and balanced/unbalanced $\frac{1}{4}$ -in phone jacks and three-pin inputs; gain controls for both channels. Output 200 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.1% THD; IM dist. 0.05% (SMPTE); frequency response 20-25,000 Hz ± 1 dB; S/N 95 dB (A weighted); damping factor 200 from 20-20,000 Hz; IHF slew factor 2; dynamic headroom 1.5 dB at 8 ohms; clipping headroom 0.35 dB; 5 $\frac{1}{4}$ " H \times 19" W \times 10 $\frac{1}{4}$ " D \$824
A 42. Same as A41 except has LED power output



bar level display, LED TDI indicator, and power limit control with LED \$948

A 31. Similar to A41 except 125 W/ch under same conditions \$674

A 32. Same as A31 except has additional features of A42 \$798

A 21. Similar to A41 except 80 W/ch under same conditions \$574

A 22. Same as A21 except has additional features of A42 \$698

A 5.1 Power Amplifier

Features ac-coupled circuitry providing dc and sub-audio protection; dual power supplies; balanced and unbalanced phono jack inputs; two calibrated gain controls. 80 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.1% THD; IM dist. 0.05% (SMPTE); frequency response

20-20,000 Hz $\pm 0/-1$ dB; S/N 95 dB (A weighted); IHF slew factor 1.5; dynamic headroom 1.5 dB; clipping headroom 0.35 dB; damping factor 200 from 20-20,000 Hz; input impedance 50k ohms balanced, 25k ohms unbalanced; 5 $\frac{1}{4}$ " H \times 9" W \times 5 $\frac{1}{2}$ " D \$428
A 4.2. Similar to A 5.1 except 40 W/ch continuous under same conditions \$358
A 3.7. Similar to A 4.2 except mono power operation; 90 W/ch continuous under same conditions \$328

ROTEL

RB-5000 Stereo Power Amplifier

Features two average power meters with three-position sensitivity switch (0, -10, and -20 dB) plus 16-LED peak indicators; standby and overload protection, and three speaker select LED indicators; three-position filter (lab test, normal, and low). 500 W/ch continuous, both channels driven into 8 ohms over 20-20,000 Hz with 0.009% THD and IM dist.; frequency response 0-200,000 Hz ± 3 dB (1 W/ch into 8 ohms); hum and noise -120 dB (IHF A, closed circuit); damping factor 180 from 20-20,000 Hz, 8 ohms; input 1 V; 9 $\frac{1}{4}$ " H \times 19" W \times 16 $\frac{3}{16}$ " D \$2700

RB-2000 Stereo Power Amplifier

Features complementary push-pull dc OCL output circuitry; separate power supplies for dual FET, differential and pre-driver stages and power output stage; dual peak level power meters; connection for two pairs of speakers; protection indicator; gold-plated input jacks. 120 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.01% THD and IM dist.; frequency response 0-200,000 Hz ± 3 dB; S/N 110 dB (IHF "A"); damping factor 60 from 20-20,000 Hz, 8 ohms; input sensitivity 1.5 V/50,000 ohms. 5 $\frac{3}{8}$ " H \times 19" W \times 16 $\frac{3}{16}$ " D \$610

RB-1000 Power Amplifier

Features dc circuitry; toroidal transformer; left/right input level controls; two-speaker switching; LED protection indicator. 65 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD; frequency response 5-100,000 Hz; S/N 90 dB; residual noise 0.2 mV; input sensitivity/impedance 1 V/20k ohms; 3 $\frac{7}{32}$ " H \times 16 $\frac{1}{16}$ " W \times 11 $\frac{3}{32}$ " D \$320

SAE

2600 Stereo Power Amplifier

400 W/ch continuous, both channels driven into 8 ohms over 20-20,000 Hz with 0.05% THD and IM dist. (600 W/ch continuous into 4 ohms with 0.1% THD); frequency response 20-20,000 Hz ± 0.25 dB; S/N 100 dB; input sensitivity 2.12 V; relay protection for speakers; fully complementary plus parallel output stage; 7" H \times 19" W \times 14" D. \$1350

2400L Stereo Power Amplifier

200 W/ch continuous, both channels driven into 8 ohms over 20-20,000 Hz with 0.05% THD and IM dist.; frequency response 20-20,000 Hz ± 0.25 dB; S/N 100 dB; input sensitivity 1.5 V; relay protection for speakers; volt/amp limiter; complementary double differential inputs and complementary series-connected output stages; LED display; feedback level control; 7" H \times 19" W \times 12 $\frac{1}{2}$ " D... \$850
WMC-2. Unassembled walnut cabinet \$50

2300 Stereo Power Amplifier

150 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist.; frequency response 20-20,000 Hz ± 0.25 dB; S/N 100 dB; input sensitivity 1.5 V. Features fully complementary circuits, toroidal power supply, full protection, and LED display for output monitoring. 5 $\frac{1}{4}$ " H \times 19" W \times 12 $\frac{1}{2}$ " D \$700
SR-5. Unassembled roll-around rack walnut cabinet for 2300 \$40

2200 Stereo Power Amplifier

100 W/ch continuous, both channels driven into 8

ohms over 20-20,000 Hz with 0.05% THD and IM dist.; frequency response 20-20,000 Hz ± 0.25 dB; S/N 100 dB; sensitivity 1.5 V rms for rated output, 100,000 ohms; LED display; 5.25" H \times 19" W \times 8.5" D \$500
WMC-3. Unassembled walnut cabinet \$45

3100 Stereo Power Amplifier

50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist.; frequency response 20-20,000 Hz ± 0.25 dB; S/N 100 dB; input sensitivity 1.0 V. Features fully complementary circuits, toroidal power supply, thermal, signal relay, and electronic protection, and LED display for output monitoring. 5 $\frac{1}{4}$ " H \times 19" W \times 8 $\frac{1}{2}$ " D \$300
WMC-3. Unassembled walnut cabinet \$45

SANSUI

BA-F1 DD/DC Power Amplifier

Features "Diamond Differential dc circuitry"; dual peak power meters calibrated in dB and W; left/right input level controls; speaker switching for two sys-



tems. Output 110 W/ch continuous, both channels driven into 8 ohms from 10-20,000 Hz with 0.008% THD; frequency response 0-600,000 Hz $\pm 0/-3$ dB; slew rate 200 V/ μ sec; rise time 0.5 μ sec; S/N 125 dB; matte black finish with detachable rack-mount handles \$665

SANYO

PLUS P55 Power Amplifier

Features dc-coupled FET circuitry and MOS FET output stage; fluid convection radiator dissipates



heat to liquid; three-way output protection and turn-on delay relay with LED; dual 12-LED graphic peak power display with X0.1 and X1 display range selector; two-way speaker switching; channel strapping for single-channel operation. Output 100 W/ch continuous, both channels driven into 4 or 8 ohms from 20-20,000 Hz with 0.009% THD and IM dist., 200 W mono; frequency response 7-100,000 Hz $\pm 0/-1$ dB; S/N 110 dB (IHF A); damping factor 60; input sensitivity/impedance 1 V/47k ohms; slew rate 150 V/ μ sec; includes rack-mount handles; fits optional EIA-standard rack; 3 $\frac{1}{2}$ " H \times 17 $\frac{3}{8}$ " W \times 10 $\frac{3}{8}$ " D \$350

H.H. SCOTT

Alpha 6 Power Amplifier

Features dc circuitry; dual computer-grade 10,000- μ F electrolytic capacitors; bimodal electro-sensor relay protection; two logarithmic power meters; two-way speaker switching; separate channel level controls. 60 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.1% THD and IM dist.; S/N 100 dB (A weighted); frequency response 10-50,000 Hz; damping factor 50 at 1000 Hz; slew rate 12 V/ μ sec; input sensitivity/impedance 1 V/25k ohms; includes EIA rack-mount handles; 5 $\frac{1}{4}$ " H \times 19" W \times 12 $\frac{1}{2}$ " D \$400

SERIES 20

M-25 Stereo Power Amplifier

Class AB stereo power amplifier with current mirror-loaded three-stage Darlington push-pull comple-



mentary OCL circuitry; 120 W/ch continuous, both channels driven into 8 ohms from 5-30,000 Hz with 0.01% THD and 0.006% IM dist.; frequency response 5-20,000 Hz $\pm 0/-1$ dB; damping factor 60 from 5-30,000 Hz at 8 ohms; hum and noise -120 dB (IHF A); input sensitivity/impedance 1 V/50k ohms; speaker output 4-16 ohms; 6 $\frac{1}{16}$ " H \times 16 $\frac{1}{16}$ " W \times 14 $\frac{1}{16}$ " D \$1200

M-22 Stereo Power Amplifier

Class A stereo power amplifier with two-stage Darlington push pull OCL dc circuitry; 30 W/ch continuous, both channels driven into 8 ohms from 10-30,000 Hz with 0.01% THD and 0.005% IM dist.; frequency response 2-150,000 Hz $\pm 0/-1$ dB; damping factor 60 from 20-20,000 Hz, 8 ohms; S/N 106 dB (IHF A); input sensitivity/impedance 1 V/50k ohms; 6 $\frac{1}{32}$ " H \times 16 $\frac{1}{32}$ " W \times 14 $\frac{1}{16}$ " D \$790

SONY

TA-N88B Stereo Power Amplifier

Stereo power amplifier with pulse-width modulation circuitry and complementary push-pull vertical FET output circuitry; features pulse-locked power supply system and three stages of amplifier/speaker protection circuitry; 160 W/ch continuous into 8 ohms from 20-20,000 Hz with max. 0.5% THD; IM dist. 0.1%; S/N 110 dB (closed circuit, "A"); frequency response 5-40,000 Hz $\pm 0.5/-1.0$ dB; damping factor 20 at 1000 Hz; input sensitivity/impedance 1.4 V/50,000 ohms; speaker impedance 8 ohms; suitable for 19-in rack mount; 3 $\frac{1}{8}$ " H \times 18 $\frac{1}{8}$ " W \times 14 $\frac{1}{8}$ " D \$1050

TA-N7B Stereo Power Amplifier

Stereo power amplifier with dual-FET input and vertical FET output circuitry; all-stage direct-coupled dc design; features four separate power transformers; no signal capacitors or switching devices in signal path; muting and complete protection circuitry; two pairs of rear-panel inputs for dc or capacitor-coupled operation. 100 W/ch continuous into 8 ohms from 20-20,000 Hz with max. 0.01% THD and IM dist.; frequency response 0-100,000 Hz $\pm 0/-1$ dB (dc coupled); S/N 120 dB ("A"); damping factor 100 at 1000 Hz; input sensitivity/impedance 1.3 V/50,000 ohms; brushed aluminum finish; 6 $\frac{3}{4}$ " H \times 17" W \times 13 $\frac{1}{4}$ " D \$920

TA-N86B Power Amplifier

Features all-stage direct-coupled design circuitry; three-mode amplification (Class B, Class A, mono); pulse-locked power supply; two sets of inputs for direct- or capacitor-coupled operation. 80 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.007% (stereo) and 0.015% (mono) THD (Class B), 18 W/ch under same conditions (Class A), 200 W (mono) \$600

SOUNDCRAFTSMEN

"New Class H" Stereo Power Amplifiers

250 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.1% THD; IM dist. 0.05%; S/N better than 105 dB; slew rate 50 V/ μ sec; damping factor greater than 100; input sensitivity/impedance 1.3 V/15-50,000 ohms; "Vari-Portional" system meters output power requirements for optimum efficiency; class AB amplifier; solid-state crowbar fail-

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POWER AMPLIFIERS

safe overload protection circuitry with automatic re-set; nonlimiting output circuitry; black anodized front panel with silver trim and walnut side panels; 7" H x 19" W x 15" D.

MA5002. Features red LED clipping indicators and green LEDs for Vari-Portional system usage; dual power cords for remote ac on/off; VU meters with 10- and 100-times increased sensitivity meter range selection; two speaker switching; power switch; separate gain controls \$799

PA5001. Without VU meters, with range, Vari-Portional and clipping LEDs, speaker switching, and gain controls \$649

EA5003. Includes 10-band octave equalizer, ±12 dB/octave with 18-dB range for zero-gain controls/channel; no VU meters \$949

SPECTRO ACOUSTICS

500SR Stereo Power Amplifier

250 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.15% THD and IM dist.; dynamic headroom 1.4 dB at 8 ohms, 340 W/ch; slew rate 24 V/μsec; input sensitivity 1.5 V rms for rated output; noise 107 dB below rated output; LED power level indicators; readout attenuation; gain attenuators; rack-mount 19-in faceplate \$750

500R. Same as 500SR but without LED power level indicators, gain attenuators, and readout attenuators \$650

200SR Power Amplifier

Features 40-LED power output bar graph display; 110 W/ch continuous with 0.08% THD and IM dist.; dynamic range 3 dB at 200 W/ch; damping factor 150; slew rate 20 V/μsec; frequency response 20-20,000 Hz ±0.1 dB; S/N 100 dB below full output (unweighted); input sensitivity 1 V; oak or walnut side panels; 7" H x 19" W x 12" D. \$400

200R. Same as 200SR without power output display \$375

STAX

DA-80 Stereo Power Amplifier

45 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.005% THD and 0.01% IM dist.; residual hum and noise -100 dB; input sensitivity 0.89 V; protective circuits for shorts, speakers, and thermal overload, class A amplifier; dc coupling \$1300

DA-80M Mono Power Amplifier

95 W continuous into 8 ohms over 20-20,000 Hz with 0.007% THD and 0.01% IM dist.; residual hum and noise -100 dB; input sensitivity 1.26 V; protective circuits for shorts, speakers, and thermal overload; class A amplifier; dc coupling \$1225

STUDER/REVOX

A740 Stereo Power Amplifier

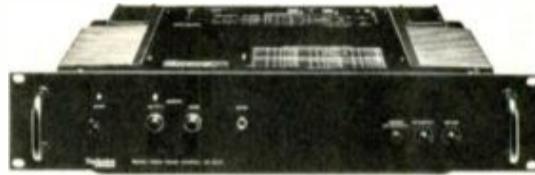
100 W/ch into 8 ohms over 45-15,000 Hz with

0.1% dist.; frequency response 20-20,000 Hz ±0.5 dB; sensitivity 1 V for rated output; features peak-indicating power output meters; 3-dB stepped input level controls; front-panel headphone jacks; carrying handles; dual phono and XLR input connections; switchable high-pass filter at input; 6" H x 17" W x 14" D \$1499

TECHNICS

SE-9060 Power Amplifier

Stereo dc power amplifier with six power supplies and mono bridging. 70 W/ch sine wave continuous into 8 ohms over 20-20,000 Hz with 0.02% THD and IM dist., 180 W mono; frequency response 20-20,000 Hz +0/-0.1 dB; S/N (IHF A) 115 dB; damping factor 70; load impedance 4-16 ohms



(main or remote), 8-16 ohms (main plus remote); 120-V ac, 60 Hz, 240 W; 3¹/₂" H x 19" W x 14¹/₂" D \$460

THRESHOLD

STASIS I Power Amplifier

Mono power amplifier features constant current/constant voltage operating system designed to elim-



inate semiconductor distortion; 72 ultra-high-speed output transistors; adjustable peak and average meter output display with sensitivity readings of peak/average 0 dB at 15 W, 8 ohms and peak/average 0 dB at 150 W, 8 ohms; LED amp on, error waveform, over temperature, and standby indicators \$3000

4000 Stereo Power Amplifier

Power amplifier with stereo amplifier/bridged mono amplifier modes; front-to-back/cascode class A circuitry incorporated into 4 MHz channel output stages with 6 kW dissipation reserve; 1-kW power transformer and dual feeding independent power supplies; includes peak and average output level indicators (+2 to -20 dB range) for each channel. 200 W/ch continuous from 20-20,000 Hz with 0.05% THD and IM dist.; frequency response 1.5-150,000 Hz; damping factor constant from 20-20,000 Hz; slew rate 50 V/μsec; S/N 106 dB unweighted; 6.94" H x 19" W x 17.25" D.. \$2160

400A Stereo Power Amplifier

Cascode/class A circuitry power amplifier features thirty-two output transistors with 4.8 kW dissipation reserve; current limiting, thermal, fuse, and circuit breaker protected; 40-dB-range peak vs average output level indicators for each channel; grained and black anodized face plate with smooth black anodized chassis, heat sinks, and handles; 100 W/ch into 8 ohms over 20-20,000 Hz with 0.05% THD and IM dist.; slew rate 40 V/μsec (max); frequency response 1.5-150,000 Hz; damping factor 200; slew rate 50 V/μsec; S/N 103 dB (unweighted); 6¹/₂" H x 19" W x 11" D \$1395

CAS-2 Power Amplifier

Features cascode design and bridged mono capability; 24 output devices with 3.6 kW dissipation reserve; dual power supplies and active current sourc-

ing; 43-dB-range peak-reading LED indicators/ch. 100 W/ch continuous from 20-20,000 Hz with 0.05% THD and IM dist.; frequency response 1.5-100,000 Hz; damping factor 150 from 20-20,000 Hz; slew rate 40 V/μsec; S/N 103 dB unweighted \$895

TOSHIBA

SC-665 Power Amplifier

Features OCL-dc circuitry; toroidal power transformer and two shunted V-type metallized film ca-



pacitors; dual peak power meters; two-speaker switching; switchable dc/5-Hz subsonic operation; -20-dB muting switch. 65 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; IHF power bandwidth 5-70,000 Hz; frequency response 0-80,000 Hz ±1 dB; damping factor 60; S/N 117 dB (IHF A); input level/impedance 1 V/47k ohms; 3.8" H x 16.5" W x 13.9" D \$350

M-15 Micro Power Amplifier

Features OCL-dc circuitry; toroidal power transformer and two filter capacitors; LED-indicated two-speaker and BTL switches. 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist., 90 W into 8 ohms at 20-20,000 Hz with 0.05% THD (balanced transformer less); frequency response 0-70,000 Hz +0/-1 dB; damping factor 60 at 8 ohms; S/N 115 dB (IHF A); input sensitivity/impedance 1 V/56k ohms; one-piece aluminum diecast body; 4.2" H x 10.1" W x 8.3" D \$340

M15B. Black finish \$350

SC-335 Stereo Power Amplifier

Features audio muting switch (-20 dB); left/right power meters with power range selector switch; double-pair speaker drive selection; stereo headphone jack; heat radiator. 40 W/ch continuous into 8 ohms from 20-20,000 Hz at 0.1% THD and IM dist.; damping factor 25; frequency response 5-80,000 Hz ±1 dB; power bandwidth 5-50,000 Hz, both channels driven, at 0.1% THD; S/N (IHF "A") 95 dB (main in); 3¹/₂" H x 16¹/₂" W x 9¹/₂" D \$180

YAMAHA

M-2 Power Amplifier

DC power amplifier features dual FET with cascode bootstrap circuit in input stage and three-stage emitter-follower complementary triple push-pull dc circuitry with linear-transfer bias circuit in output stage; high-capacity toroidal power transformer and two high-capacity electrolytic capacitors; power transistor, dc detection, and muting protection circuits; dual-LED peak level bar graph display; LED overload indicator; illuminated two-speaker switching; separate left and right input level controls and dc/ac input switch on rear panel. 240 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.005% THD; power bandwidth 10-100,000 Hz at half rated power; frequency response 10 (0 dB)-100,000 (-0.7 ±0.5 dB) Hz (dc mode, 120 W, 8 ohms), 10 (-1.5 ±0.5 dB)-100,000 (-0.7 ±0.5 dB) Hz (ac mode, 120 W, 8 ohms); THD 0.003% from 10-20,000 Hz, 120 W into 8 ohms; IM dist. 0.002% at 60:7000 Hz ratio, 120 W into 8 ohms; damping factor 200 at 8 ohms, 20,000 Hz; input sensitivity/impedance 1 V/25k ohms; S/N 123 dB (IHF A); 7¹/₂" H x 17¹/₂" W x 14¹/₂" D \$1200

M-4. Similar to M-2 without linear-transfer bias circuit and muting protection circuit; 120 W/ch under same conditions; THD 0.005% from 10-20,000 Hz, 60 W into 8 ohms; S/N 118 dB (IHF A); 5³/₄" H x 17¹/₂" W x 14³/₄" D \$650

ABOUT PRICES. . . .

With repeal of Fair Trade Laws, manufacturers are now providing "Suggested Retail" or "Fair Retail Value" figures for the guidance of their dealers and customers. Prices in this Directory are those provided by the manufacturers under these conditions.

2

INTEGRATED AMPLIFIERS

ACCUPHASE

E202 Integrated Stereo Amplifier

100 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.1% THD (140 W/ch into 4 ohms, 50 W/ch into 16 ohms); hum and noise -94 dB (main amp), -80 dB (high level), -74 dB (low level); phono sensitivity variable over 2.5-5 mV; phono impedance 30,000, 47,000, 100,000 ohms (switchable); 6" H x 18" W x 14" D. \$800 AWC-2. Walnut case. \$50

AIKO by TZL INTERNATIONAL

AU-80 Stereo Integrated Amplifier

Power amp: features dual power output meters; two-speaker switching; 40 W/ch continuous into 4 ohms with 0.2% HD at 1000 Hz. Preamp features bass and treble controls; low and high filters; loudness, mode, and tape/source monitor switches. 5 1/2" H x 17" W x 8 1/4" D. \$260

AIWA

AA-8700 Stereo Integrated Amplifier

Power amp: features dc circuitry; logarithmic compression peak power meters; two-speaker switching; 75 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; frequency response 5-100,000 Hz +/- 3 dB; damping factor 60 at 8 ohms from 20-20,000 Hz. Preamp: features built-in moving-coil head amplifier; bass and treble controls with turnover frequency switches and six-LED turnover frequency/filter setting displays; low and high filters; loudness and muting switches; balance control; two-way tape dubbing and monitoring with separate tape 3 play/record control; mode switch; input selector with LEDs and phono capacitance selector; input sensitivity/impedance 200 uV/10 ohms (phono MC), 150 mV/47k ohms (tuner, aux., tape, DIN); phono overload 280 mV (MM); RIAA deviation +/- 0.2 dB from 30-15,000 Hz; S/N (IHF A) 83 dB (MM), 70 dB (MC), 100 dB (tuner, aux., tape); 6 3/16" H x 18 1/16" W x 14 13/16" D. \$550

AA-8300U Stereo Integrated Amplifier

Power amp: features dual peak power meters; two-speaker switching; 45 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.1% THD and IM dist.; damping factor 45 at 8 ohms from 20-20,000 Hz. Preamp: features bass and treble controls; low and high filters; loudness and -15-dB muting; two-way tape dubbing and monitoring; balance/volume control; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/47k ohms (aux., tape, and DIN); phono overload 130 mV; frequency response +/- 0.3 dB from 30-15,000 Hz (phono RIAA), 10-50,000 Hz +/- 0.2 dB (aux. and tape); S/N (IHF A) 80 dB (phono), 90 dB (aux. and tape); 5 3/16" H x 16 3/16" W x 13" D. \$300

AKAI

AM-2850 Stereo Integrated Amplifier

Features dc circuitry; illuminated power meters;



separate low- and high-frequency filters; speaker

switching for three systems; audio mute; tone control defeat; separate bass, midrange, and treble controls; tape 1 and 2/dub 1-to-2 and 2-to-1/source tape monitor selector; phono 1/phono 2/tuner/aux. input selector; balance control; loudness switch; stereo/mono switch. 85 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.08% THD; silver panel with wood-grain vinyl cover; 6.7" H x 17.3" W x 16.9" D. \$475

AM-2650 Stereo Integrated Amplifier

Features illuminated power meters; high- and low-frequency filter switches; separate bass and treble controls; tape 1 and 2/dub 1-to-2 and 2-to-1/source tape monitor selector; phono 1/phono 2/tuner/aux. input selector; speaker switching for two systems; balance control; tone, audio mute, stereo/mono, and loudness switches; direct-coupled complementary OCL circuitry. Power amp: 65 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.08% THD; THD 0.02%; power bandwidth 6-60,000 Hz at 8 ohms (IHF); S/N (IHF) 75 dB (phono), 95 dB (aux.); damping factor 30 at 1000 Hz, 8 ohms. Preamp: input sensitivity/impedance 1.3 mV/33k, 47k, 100k ohms (phono 1), 3 mV/47k ohms (phono 2), 150 mV/100k ohms (aux. and tuner); frequency response 30-15,000 Hz +/- 1 dB (phono RIAA), 10-60,000 Hz +/- 1 dB (tuner, aux., tape monitor); tone control +/- 9 dB at 100 Hz (bass), +/- 9 dB at 10,000 Hz (treble). 5.7" H x 17.3" W x 13.6" D. \$300

AM-2450. Similar to AM-2650 without audio mute, high- and low-frequency filter selectors, and tone switch; has phono/tuner/aux. input selector. Power amp: 45 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.1% THD. \$225

AM-2250 Stereo Integrated Amplifier

Features aux./tuner/phono input selector; two-speaker switching; separate bass and treble controls; loudness switch; stereo/mono mode selector; balance switch; dub 1-to-2 tape monitor switch; complementary OCL circuitry. Power amp: 25 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.2% THD; THD 0.03%; power bandwidth 10-40,000 Hz at 8 ohms (IHF); S/N (IHF) 75 dB (phono), 95 dB (aux.); damping factor 50 at 1000 Hz, 8 ohms. Preamp input sensitivity/impedance 3 mV/47k ohms (phono), 150 mV/100k ohms (aux. and tuner); frequency response 30-15,000 Hz +/- 1 dB (phono RIAA), 10-40,000 Hz +/- 1 dB (tuner, aux., tape monitor); tone control +/- 8 dB at 100 Hz (bass), +/- 6 dB at 10,000 Hz (treble). 5.1" H x 15" W x 8.7" D. \$150

DENON

PMA-850 Integrated Amplifier

All-stage, complementary-pushpull, dc-circuit integrated amplifier. Power amplifier: 110 W/ch continuous into 4 ohms at 1000 Hz with 0.05% THD, 85 W/ch continuous into 8 ohms from 20-20,000 Hz at 0.001% THD; IM dist. 0.02% max.; power bandwidth 5-100,000 Hz into 8 ohms; frequency response at 0.5 W output from 5-100,000 Hz +/- 1 dB; input sensitivity/impedance 1 V rms/50k ohms +/- 10% from 20-20,000 Hz; output impedance 0.16 ohm max.; S/N 122 dB (IHF "A"). Preamp: input sensitivity/impedance 2.5 mV rms/50k ohms; rated output/impedance 1 V rms/50k ohms; RIAA deviation +/- 0.2 dB from 20-20,000 Hz; max. phono input 200 mV rms at 1000 Hz; bass frequency response 100 Hz +/- 8 dB, treble 10,000 Hz +/- 8 dB. Features direct-coupled switch and toroidal core power transformer with separate left/right channel coils. 164 mm H x 434 mm W x 400 mm D. \$800

PMA-630 Stereo Integrated Amplifier

Power amp: features purely complementary push-pull dc circuitry; heavy-duty power transformer with two block capacitors; two-speaker switching; 80 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.008% THD; IM dist. 0.005%; frequency response 0-100,000 Hz +/- 1 dB; S/N 112 dB (IHF A); input sensitivity/impedance 320 mV, 100k ohms. Preamp: features detented volume control; balance control; switcha-

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2

INTEGRATED AMPLIFIERS

ble 20- and 40-Hz subsonic filter; loudness switch; two-way tape dubbing and monitoring; rec out selector; input selector; input sensitivity/impedance



2.5 mV/50k ohms (phono 1 and 2), 320 mV/30k ohms (tuner, aux., tape); phono overload 200 mV at 1000 Hz; gain 89 dB; RIAA phono deviation ± 0.2 dB; THD 0.003% at 10 V out; rated output 2.5 V; S/N 86 dB (phono), 112 dB (tuner and aux.); complements TU-630 tuner; brushed aluminum front panel; 145 mm H \times 434 mm W \times 390 mm D..... \$460

PMA-501 Integrated Amplifier

Three-stage, direct-coupled equalizer amplifier. Power amplifier: 65 W/ch continuous into 4 ohms from 20-20,000 Hz at 0.005% THD, 50 W/ch continuous into 8 ohms; IM dist. and HD at rated output max. 0.05%; power bandwidth 5-50,000 Hz both channels driven into 8 ohms; frequency response from 5-100,000 Hz -1 dB at 0.5 W output; input sensitivity/impedance 1 V rms/50k ohms $\pm 10\%$; 0.16-ohm output impedance; S/N 116 dB (IHF "A"). Preamplifier: input sensitivity/impedance 2.5 mV rms/50k ohms (phono), 150 mV rms/85k ohms (tuner, aux, tape 1 & 2); RIAA deviation ± 0.2 dB; max input 230 mV rms (phono); max. output/impedance 10 V rms/50k ohms; THD at rated output 0.008% max. at 1000 Hz; S/N 76 dB min. Tone control: frequency response 50 Hz ± 10 dB (bass), 20,000 Hz ± 10 dB (treble); low filter rolloff 6 dB/octave at 20 Hz; stereo separation 75 dB from 20-1000 Hz (phono/speaker out), 60 dB at 20,000 Hz (phono/speaker out). Features PCC (phono crosstalk canceller) device, separate recording switch, three power transformers, and OCL and pure complementary circuitry; 5 $\frac{3}{4}$ " H \times 16 $\frac{1}{4}$ " W \times 12 $\frac{3}{4}$ " D \$410

FISHER

CA2420 Integrated Amplifier/Equalizer

Power amp section: features dc circuitry, dual power meters, and two-speaker switching; 80 W/ch



continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; damping factor 50. Preamp/equalizer: features subsonic filter; EQ defeat switch; mode and loudness switches; two-way tape dubbing and monitoring; balance control; input selector; phono capacitance selector; input sensitivity/impedance 2.5 mV/50k ohms (MM), 60 μ V/22 ohms (MC), 150 mV/100k ohms (tuner, aux., tape); phono overload 230 mV (MM), 6 mV (MC); frequency response ± 0.5 dB (phono RIAA), 20-20,000 Hz ± 0.5 dB (high level); S/N (IHF A) 80 dB (MM), 65 dB (MC), 100 dB (tuner, aux., tape); five-band graphic equalizer with center frequencies set at 50, 250, 1000, 4500, and 15,000 Hz, ± 10 dB boost or cut; subsonic

filter 6 dB/octave at 10 Hz. 5 $\frac{1}{4}$ " H \times 17 $\frac{1}{2}$ " W \times 13" D \$550

CA2320 Stereo Integrated Amplifier

Power amp: features dc circuitry and two-speaker switching; 60 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist; damping factor 50. Preamp: features bass and treble controls with tone defeat; switchable 5/20 Hz subsonic filter; two-way tape monitoring and dubbing; balance control; loudness switch; mode selector; input selector; input sensitivity/impedance 2.5 mV/50k ohms (MM), 60 μ V/22 ohms (MC), 150 mV/50k ohms (tuner, aux., tape); phono overload 230 mV (MM), 6 mV (MC); frequency response ± 0.5 dB (phono RIAA), 20-20,000 Hz ± 0.5 dB (aux.); S/N (IHF A) 80 dB (MM), 65 dB (MC), 100 dB (tuner, aux., and tape); 3 $\frac{1}{2}$ " H \times 17 $\frac{1}{2}$ " W \times 12 $\frac{1}{4}$ " D..... \$400

CA2220 Integrated Amplifier/Equalizer

Power amp: features dc circuitry, dual power meters, and two-speaker switching; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist; damping factor 50. Preamp/equalizer: features subsonic filter; EQ defeat; mode and loudness switches; two-way tape dubbing and monitoring; input selector; input sensitivity/impedance 2.5 mV/50k ohms (phono), 150 mV/100k ohms (tuner, aux., tape); phono overload 230 mV; frequency response ± 0.5 dB (phono RIAA), 20-20,000 Hz ± 0.5 dB (aux.); S/N (IHF A) 80 dB (phono), 90 dB (tuner, aux., and tape); five-band graphic equalizer with center frequencies set at 50, 250, 1000, 4500, and 15,000 Hz, ± 10 dB boost or cut; 5 $\frac{1}{4}$ " H \times 17 $\frac{1}{2}$ " W \times 13" D..... \$400

CA2120. Similar to CA2220 minus subsonic filter; 35 W/ch continuous under same conditions... \$330

HARMAN/KARDON

hk505 Integrated Amplifier

Power amplifier: dc-coupled with dual power supplies; 60 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.03% THD; THD 0.01% (1000 Hz at rated output); IM dist. 0.05% at rated output; frequency response 2-150,000 Hz ± 0.5 dB; damping factor more than 50 at 8 ohms; hum and noise -100 dB. Preamplifier: four-stage, low-noise preamplifier features separate 21-step bass and treble controls (± 10 dB) with bass hinge set at 150 or 500 Hz and treble hinge set at 2500 or 6000 Hz; tone defeat switch; subsonic and high-cut filters; electronic circuit protection; two-position bass turnover and treble roll-off; two-way tape duplication with LED tape monitor indicators; two auxiliary inputs; phono capacitance switch; speaker selector switch; sensitivity 2.0 mV (phono), 120 mV (high level); phono overload greater than 150 mV; phono equalization ± 0.5 dB; S/N ("A") 85 dB (phono), 90 dB (high level).. \$399

hk503. Similar to hk505 except 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD; frequency response 3-100,000 Hz ± 0.5 dB; damping factor greater than 30 at 8 ohms; hum and noise -95 dB. Features similar, but single power supply, center detent bass and treble controls (± 10 dB), no electronic circuit protection, no phono capacitance switch, and three-position tape monitor with simultaneous two tape deck recording and tape copying functions \$279

HITACHI

HA-7700 Stereo Integrated Amplifier

Power amp section: features MOS FETs and dc circuitry; dual power supplies; two-speaker switching; 65 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD; IM dist. 0.008%; frequency response 0-100,000 Hz $+0/-1$ dB (dc); input sensitivity/impedance 1 V/47k ohms; S/N 115 dB (IHF A); damping factor 60

at 1000 Hz, 8 ohms. Preamp section: features bass and treble controls with tone defeat; two-way tape monitoring and dubbing; -16 -dB muting switch; low filter; balance control; input selector with separate cartridge load impedance selector; mode switch; input sensitivity/impedance 2.5 mV/100, 22,000, 47,000, and 100,000 ohms (phono MM), 250 μ V/100 ohms (MC), 150 mV/47k ohms (tuner, aux., tape); phono overload 300 mV (MM), 30 mV (MC); frequency response 20-20,000 Hz ± 0.2 dB (phono RIAA), 10-100,000 Hz $+0/-2.5$ dB (tuner and aux.); S/N (IHF A) 86 dB (phono MM), 68 dB (MC), 100 dB (tuner, aux., tape); HD 0.002% (MM), 0.01% (MC), 0.005% (tuner, aux., tape); speaker, tone, mode, and phono impedance controls on front panel hidden behind hinged door; 6 $\frac{1}{2}$ " H \times 17 $\frac{1}{2}$ " W \times 15" D..... \$600

HA-5700 Stereo Integrated Amplifier

Power amp: features MOS FETs; two-transformer power supply circuitry; dual LED power logarithmic meter display with $\times 0.1$ and $\times 1$ range selector; two-speaker switching; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD; IM dist. 0.008%; power bandwidth 5-60,000 Hz; damping factor 50 at 1000 Hz, 8 ohms. Preamp: features built-in moving-coil head amp; bass and treble controls with tone defeat; subsonic filter; loudness and mode switches; balance control; two-way tape dubbing and monitoring; input selector with LEDs; input sensitivity/impedance 2.5 mV/47k ohms (MM), 0.25 mV/10 ohms (MC), 150 mV/47k ohms (tuner, aux., tape); phono overload 200 mV (MM), 20 mV (MC); frequency response 20-20,000 Hz $+0.5/-4.5$ dB (phono), 10-100,000 Hz $+0.5/-4.5$ dB (tuner and aux.); S/N (IHF A) 82 dB (MM), 62 dB (MC), 100 dB (tuner and aux.); HD 0.005% (MM), 0.02% (MC, tuner, aux., tape); 4 $\frac{1}{4}$ " H \times 17 $\frac{1}{2}$ " W \times 15" D. \$430

HA-4500 Stereo Integrated Amplifier

Power amp: features pure complementary OCL output circuitry; dual LED power logarithmic meter display; two-speaker switching; 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD; power bandwidth 10-50,000 Hz; damping factor 35. Preamp: features bass and treble controls; balance control; subsonic filter; loudness and mode selectors; two-way tape dubbing and monitoring; input selector with LEDs; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/33k ohms (tuner and tape); phono overload 250 mV; S/N (IHF A) 75 dB (phono), 90 dB (tuner and tape); frequency response ± 0.3 dB (phono RIAA), 10-40,000 Hz $+0/-1$ dB (tuner and tape); 4 $\frac{3}{8}$ " H \times 17" W \times 10 $\frac{1}{8}$ " D \$250

HA-3500. Similar to HA-4500 minus tape dubbing facility, aux. input, and logarithmic meters; has two-deck monitoring capability and dual power meters; 30 W/ch continuous under same conditions; damping factor 30; phono overload 200 mV; tuner and tape frequency response 10-40,000 Hz $+0.5/-1.5$ dB \$200

HA 330 Integrated Amplifier

OCL integrated amplifier. 40 W/ch, both channels driven into 8 ohms from 20-20,000 Hz at 0.3% THD and IM dist.; IHF power bandwidth 10-50,000 Hz; frequency response 20-20,000 Hz ± 1 dB (tape, aux.); bass and treble tone controls ± 8 dB range. Features twin power level meters; low (12 dB/octave) filter; two-tape deck capability through switch control; 41-click-stop volume control.. \$220

JVC

A-M1 Micro Integrated Amplifier

Power amp: features ICL dc circuitry; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD; frequency response 0-70,000 Hz $+0/-1$ dB; damping factor 30. Preamp: features input selector buttons with LEDs; volume control in four steps; source and tape monitor buttons with LEDs. Input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/47k ohms

(tuner, aux., tape); RIAA phono equalization ± 0.3 dB from 20-20,000 Hz; phono overload 200 mV rms; S/N (IHF A) 82 dB (phono), 105 dB (tuner, aux., tape); 3 $\frac{1}{16}$ " H \times 9 $\frac{1}{16}$ " W \times 10 $\frac{3}{16}$ " D.... \$600

JA-S77 Stereo Integrated Amplifier

All-stage dc power amp, phono equalizer, and tone control circuits. Power amplifier: 65 W/ch continu-



ous, both channels driven into 8 ohms from 20-20,000 Hz at 0.02% THD, 90 W/ch continuous into 4 ohms at 1000 Hz, 0.02% THD; THD 0.005% at 1000 Hz, 65 W output; IM dist. 0.01% at 65 W out; damping factor 50 from 20-20,000 Hz into 8 ohms; load impedance 4-16 ohms (Sys. 1 or 2), 8-16 ohms (Sys. 1 + 2). Preamp: input sensitivity/impedance 2.5 mV/33k, 47k, 100k ohms (phono 1, 2), 200 mV/50k ohms (tuner, aux., tape 1, 2); max. input 280 mV rms (phono); S/N (IHF "A") 81 dB (phono), 105 dB (tuner, aux, tape); RIAA phono equalization ± 0.2 dB; frequency response 3-100,000 Hz +0/-1 dB; subsonic filter rolloff -6 dB/octave at 18 Hz; -20 dB muting level. Features two gold-plated phono terminal pairs, pre-out/main-in switch, and twin power meters; 6 $\frac{1}{4}$ " H \times 17 $\frac{3}{4}$ " W \times 13 $\frac{1}{2}$ " D..... \$430

JA-S55 Stereo Integrated Amplifier

All-stage, dc power amplifier, phono equalizer, and tone control circuits. Power amplifier: 60 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.02% THD, 70 W/ch continuous into 4 ohms at 1000 Hz, 0.05% THD; THD 0.005% at 60 W output; IM dist. 0.01% at 60 W output; damping factor 50 from 20-20,000 Hz into 8 ohms; load impedance 4-16 ohms (Sys. 1 or 2), 8-16 ohms (Sys. 1 + 2). Preamp: input sensitivity/impedance 2.5 mV/47k ohms (phono), 200 mV/50k ohms (tuner, aux., tape 1, 2); max. input 230 mV rms (phono); S/N (IHF "A") 81 dB (phono), 105 dB (tuner, aux, and tape); RIAA phono equalization ± 0.3 dB; frequency response 5-100,000 Hz +0/-1 dB; subsonic filter rolloff -6 dB/octave at 18 Hz; muting -20 dB. Features separate power supplies, dB-calibrated attenuator volume control, and twin power meters; 6" H \times 16 $\frac{3}{4}$ " W \times 13 $\frac{3}{8}$ " D..... \$340

JA-S44 Stereo Integrated Amplifier

DC power amplifier with SEA stereo graphic equalizer. Power amplifier: 45 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.02% THD, 70 W continuous into 4 ohms at 1000 Hz with 0.05% THD; THD 0.005% at 45 W output; IM dist. 0.01% at 45 W output; damping factor 30 from 20-20,000 Hz; load impedance 4-16 ohms (Sys. 1 or 2), 8-16 ohms (Sys. 1 + 2). Preamp: input sensitivity/impedance 2.5 mV/47k ohms (phono), 160 mV/50k ohms (tuner, aux., tape 1, 2); max. input 200 mV rms; S/N (IHF "A") 80 dB (phono), 100 dB (tuner, aux, tape); RIAA phono equalization ± 0.3 dB; frequency response 5-100,000 Hz +0/-2 dB; subsonic filter rolloff -6 dB/octave at 18 Hz. Features SEA REC switch and twin power meters. 6" H \times 16 $\frac{3}{4}$ " W \times 12 $\frac{5}{8}$ " D..... \$340

JA-S22 Stereo Integrated Amplifier

DC power amplifier. Power amplifier: 45 W/ch continuous, both channels driven into 8 ohms from

20-20,000 Hz at 0.02% THD, 50 W/ch continuous into 4 ohms at 1000 Hz, 0.05% THD; THD and IM dist. 0.01% at 40 W output; damping factor 30 from 20-20,000 Hz into 8 ohms; load impedance 4-16 ohms (Sys. 1 or 2), 8-16 ohms (Sys 1 + 2). Preamp: input sensitivity/impedance 2.5 mV/47k ohms (phono), 160 mV/50k ohms (tuner, aux, tape 1, 2); max. input 200 mV rms (phono); S/N (IHF "A") 80 dB (phono), 100 dB (tuner, aux, tape); RIAA phono equalization ± 0.3 dB; frequency response 5-100,000 Hz +0/-2 dB; subsonic filter rolloff -6 dB/octave at 18 Hz. Features twin power meters, class-A phono equalizer, and front-panel Tape-2 terminals. 6" H \times 16 $\frac{3}{4}$ " W \times 13 $\frac{3}{8}$ " D. \$240

A-S5 Stereo Integrated Amplifier

Power amp section: features complementary OCL circuitry; two-speaker switching; 30 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.06% THD and IM dist.; damping factor 50 from 20-20,000 Hz, 8 ohms. Preamp: features bass and treble controls; two-deck dubbing; input selector; loudness switch; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/40k ohms (tuner, aux., and tape); phono overload 150 mV rms; frequency response ± 0.5 dB (phono RIAA), 20-40,000 Hz ± 1 dB; S/N (IHF A) 75 dB (phono), 95 dB (tuner, aux., tape) 5 $\frac{7}{8}$ " H \times 16 $\frac{1}{2}$ " W \times 10 $\frac{7}{16}$ " D..... \$180
A-S3. Similar to A-S5 except 20 W/ch with 0.08% THD and IM dist.; input sensitivity/impedance 150 mV/45k ohms (tuner), 150 mV/50k ohms (tape); phono overload 120 mV; aux. frequency response 20-40,000 Hz +1/-2 dB; 3 $\frac{1}{2}$ " H \times 16 $\frac{9}{16}$ " W \times 11 $\frac{1}{32}$ " D..... \$150

JA-S11G Stereo Integrated Amplifier

30 W/ch continuous both channels driven into 8 ohms over 20-20,000 Hz with 0.1% THD and IM dist.; damping factor 30 (8 ohms, 1 kHz); S/N 75 dB (phono); phono overload 150 mV (1 kHz); phono RIAA equalization ± 0.5 dB; frequency response 25-40,000 Hz +0/-1 dB; sensitivity 2.5 mV (phono); bass and treble tone controls; two tape monitoring circuits with tape-to-tape dubbing; protection for speakers and power transistors; three-position speaker selector; front panel headphone jack; 5 $\frac{3}{32}$ " H \times 15 $\frac{11}{32}$ " W \times 13" D..... \$150

KENWOOD

KA-907 DC Integrated Amplifier

Power amp: features dc circuitry, dc coupled selector with LED, full complementary circuit design,



and dual power supplies; LED power safety indicator; output 150 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.01% THD; IM dist. 0.0045%; damping factor 100 from 0-20,000 Hz; slew rate ± 230 V/ μ sec; rise time 0.8 μ sec; frequency response 0-400,000 Hz +0/-3 dB (dc coupled on), 1-400,000 Hz +0/-3 dB (dc coupled off). Preamp: features built-in low-noise moving-coil head amp and super-low-noise moving-magnet phono equalizer amp; bass and treble tone controls with 150/400 and 3000/6000 Hz turnover frequency selectors with tone defeat; -20 dB attenuator; 18-Hz subsonic and 8000-Hz high filters; two-way speaker switching; two-deck tape dubbing and monitoring; loudness level and 30- and 100-Hz frequency controls; input selector with separate phono selections; mode selector; phono frequency response ± 0.2 dB from 20-20,000 Hz (RIAA); input sensitivity/impedance 2.5 mV/33k, 47k, and 100k ohms (phono 1 MM), 2.5 mV/47k ohms (phono 2 MM), 0.1 mV/100 ohms (phono 1 MC), 150 mV/50k ohms (tuner, aux., tape A and B); S/N (IHF A) 90 dB (phono 1 and 2 MM), 70 dB (phono 1

MC), 105 dB (tuner, aux., tape); max. input level 230 mV rms (phono 1 and 2 MM), 9 mV rms (phono 1 MC). Power amp and preamp separable; 6 $\frac{1}{32}$ " H \times 18 $\frac{1}{8}$ " W \times 18 $\frac{7}{32}$ " D..... \$1000

KA-801 DC Integrated Amplifier

Power amp: features dc circuitry with dc coupled switch, dual peak power meters, and dual power supplies; 110 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.015% THD; IM dist. 0.003%; damping factor 100 from 0-20,000 Hz; slew rate ± 150 V/ μ sec; rise time 0.8 μ sec; frequency response 0-400,000 Hz -3 dB (dc coupled on), 18-400,000 Hz -3 dB (dc coupled off). Preamp: features low-noise phono equalizer amp; bass and treble controls with tone defeat; two-way speaker switching; balance control; -20 dB attenuator; loudness switch; input selector; subsonic filter (functions as dc coupled switch) two-way tape dubbing and tape B and source monitoring; phono frequency response ± 0.2 dB from 20-20,000 Hz (RIAA); input sensitivity/impedance 2.5 mV/50k ohms (phono), 200 mV/50k ohms (tuner, aux., and tape A and B); S/N (IHF A) 90 dB (phono), 105 dB (tuner, tape, and aux.); max. phono input 230 mV rms; 6 $\frac{1}{32}$ " H \times 17 $\frac{19}{32}$ " W \times 16 $\frac{4}{32}$ " D..... \$699

KA-701. Similar to KA-801 without peak power meters; has turnover frequency controls for bass and treble with defeat and 8000-Hz high filter switch; power output 80 W/ch continuous with 0.02% THD; slew rate ± 120 V/ μ sec; rise time 0.9 μ sec; S/N 89 dB (phono), 110 dB (tuner, tape, aux.); max. phono input 220 mV rms..... \$499

KA-601. Similar to KA-701 minus turnover frequency selectors and high filter switch; power output 60 W/ch continuous; IM dist. 0.004%; slew rate ± 110 V/ μ sec; S/N 87 dB (phono), 105 dB (tuner, aux., tape); phono RIAA frequency response ± 0.3 dB from 20-20,000 Hz..... \$399

KA-305 Stereo Integrated Amplifier

Power amplifier: 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.08% THD; IM dist. 0.004%; damping factor 40; frequency response 3-100,000 Hz -3 dB. Preamp: features bass and treble controls with bypass tone control, loudness and balance, mic mixing with mic level control, and input selector; phono frequency response ± 0.4 dB from 30-15,000 Hz (RIAA); input sensitivity/impedance 2.5 mV/50k ohms (phono and mic), 150 mV/30k ohms (tuner, aux., and tape); S/N (IHF A) 77 dB (phono), 105 dB (tuner, aux., tape), 73 dB (mic); max. phono input 260 mV rms; 5 $\frac{3}{32}$ " H \times 15 $\frac{3}{4}$ " W \times 11 $\frac{29}{32}$ " D. \$199
KA-405. Similar to KA-305 except dc amplifier with peak power meters, two-way tape dubbing with source monitor switch, and LED input selector display; 55 W/ch with 0.05% THD; IM dist. 0.009%; frequency response 2-250,000 Hz +0/-3 dB; phono S/N 83 dB; phono overload 210 mV.... \$299

KA-3700 Integrated Amplifier

Power amplifier: 20 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.08% THD; IM dist. 0.04%; frequency response 20-20,000 Hz ± 1 dB. Preamp: has one-way tape dubbing; sensitivity 2.5 mV (phono), 150 mV (high level); S/N (A weighted) 72 dB (phono), 100 dB (aux.); frequency response 15-20,000 Hz ± 0.4 dB (phono RIAA); phono overload 150 mV; 5 $\frac{1}{2}$ " H \times 15" W \times 11 $\frac{1}{2}$ " D..... \$159

Audio Purist Group

600 Stereo Integrated Amplifier

Power amp: 130 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.08% THD; dual power supplies; ASO protection circuit. All-FET direct coupled preamp; max. input 220 mV; dual-level attenuation before and after control preamp section; negative feedback tone controls; selectable turnover points (150, 400, 3000, and 6000 Hz); two-position presence control; defeat switch; four-position loudness control; high/low steep-slope filters; dual tape provision with "tape-through" circuit; selectable cartridge impedance; provision for two phono, two aux., tuner, and three speaker systems; 6" H \times 17 $\frac{1}{4}$ " W \times 15 $\frac{1}{4}$ " D..... \$550

NEED MORE INFORMATION?

Write directly to the manufacturer or distributor. A list of names and addresses starts on page 9.

2 INTEGRATED AMPLIFIERS

LUX

L-11 Integrated Amplifier

Features moving-coil position and input transformer socket; linear equalizer; two-position subsonic filter; headphone jack; two tape deck capability with separate selectors; tape monitor circuit; speaker protection circuit; ac power outlet. Power amplifier: 100 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.02% THD and IM dist.; frequency response 2500-100,000 Hz +0/-1 dB; input sensitivity 1.6 V; damping factor 80. Preamplifier: input sensitivity 2.5 mV (phono 1 and 2), 150 mV (aux., tuner); S/N (IHF "A") better than 92 dB (phono); frequency response 20-20,000 Hz ± 0.2 dB (phono), 2500-100,000 Hz +0/-1 dB (tuner, aux., monitor 1 and 2) \$945

L-10 Integrated Amplifier

Features variable tonal range of +2/-2.5 dB; speaker protection circuit; subsonic filter; tape 1 and 2 recording selectors; tape monitor switch; headphone jack; extra ac outlets (switched and unswitched). Power amplifier: 55 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.015% THD and IM dist.; frequency response 0-100,000 Hz ± 1 dB; input sensitivity 300 mV; hum and noise -100 dB (IHF "A"); damping factor 80. Preamplifier: output 300 mV; input sensitivity 3 mV (phono), 300 mV (tuner, aux.); S/N (IHF "A") 90 dB (phono), 100 dB (tuner, aux.); frequency response 20-20,000 Hz ± 1 dB (phono), 0-100,000 Hz -1 dB (tuner, aux.). 3⁵/₁₆" H x 17¹/₁₆" W x 14¹³/₁₆" D \$795

L-5 Integrated Amplifier

Features bass and treble controls (± 12 -dB range); headphone jack; tape dubbing circuit; tape monitor circuit; high- and low-cut filters; subsonic filter; speaker protection circuit; ac power outlet. Power amplifier: 60 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.03% THD and IM dist.; frequency response 5-100,000 Hz +0/-1 dB; input sensitivity 1.3 V; damping factor 80. Preamplifier: input sensitivity 2.5 mV (phono 1 and 2), 150 mV (aux., tuner, and monitor 1 and 2); S/N (IHF "A") 92 dB (phono); frequency response 20-20,000 Hz ± 0.5 dB (phono), 10-100,000 Hz +0/-1 dB (tuner, aux., monitor 1 and 2) \$595

L-3 Integrated Amplifier

Features bass and treble tone controls (± 11 -dB range); headphone jack; tape dubbing circuit; tape monitor circuit; ac power outlet. Power amplifier: 35 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.05% THD; IM dist. 0.08%; frequency response 15-60,000 Hz -1 dB; damping factor 60. Preamplifier: input sensitivity 2.5 mV (phono), 150 mV (aux., tuner, monitor 1 and 2); S/N (IHF "A") 87 dB (phono); frequency response 30-18,000 Hz ± 0.5 dB (phono), 15-60,000 Hz -1 dB (tuner, aux., monitor 1 and 2) \$395

Laboratory Reference Series

Luxman 5L15 Integrated Amplifier

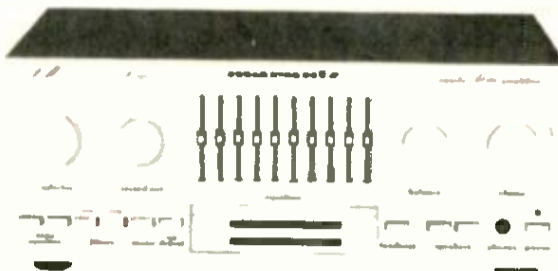
Stereo integrated amplifier with direct-coupled dc preamps and power amps and class AB output stages; connections for tuner, two tapes, two auxiliary sources, and phono. Features phono subsonic filter, two-level muting switch, and illuminated power meters. Power amplifier: 80 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; frequency response 0-100,000 Hz ± 1.0 dB; S/N greater than 100 dB (IHF "A"); damping factor 80. Preamplifier: input sensitivity 3 mV (phono), 300 mV (aux., tape 1/2). Other features include dc offset warning light, electrostatic speaker switch, outputs for LED peak indicator, and speaker-amplifier

protection dc sensors. Metal enclosure; 16" H x 17⁷/₁₆" W x 5¹/₈" D \$995

MARANTZ

PM700 Stereo Integrated Amplifier

Power amp: features dc circuitry; dual LED power output logarithmic displays; two-speaker switching;



70 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.025% THD and IM dist.; damping factor 60 at 20 Hz. Preamp: features built-in moving-coil cartridge head amplifier; built-in five-band stereo graphic equalizer with center frequencies set at 50, 200, 800, 3200, 12,800 Hz, ± 12 dB boost or cut and EQ defeat; 6 dB/octave low (20 Hz) and high (9000 Hz) filters; mono switch; loudness switch; balance control; record mode selector with two-way tape dubbing and two-deck tape monitoring; input selector; input sensitivity/impedance 2.8 mV/47k ohms (phono MM), 0.2 mV/40 ohms (phono MC), 150 mV/30k ohms (high level); phono overload 220 mV (MM), 16 mV (MC); S/N (A weighted) 92 dB (phono MM), 98 dB (high level); frequency response ± 0.2 dB from 20-20,000 Hz (phono), 10-70,000 Hz ± 1 dB (high level); dynamic range 123 dB (phono MM), 112 dB (MC); 5³/₁₆" H x 16³/₁₆" W x 13" D \$420
PM500. Similar to PM700 minus built-in moving-coil head amp, record out selector, and high filter; has single five-band graphic equalizer with same center frequencies; 50 W/ch continuous, under same conditions; phono RIAA deviation ± 0.3 dB; phono S/N 90 dB (A weighted); phono dynamic range 117 dB \$330
PM300. Similar to PM500 minus mono switch, EQ defeat, and two-way tape dubbing and monitoring; has tape/source monitor switch, power level meters, and bass, midrange, and treble slide controls; 30 W/ch continuous with 0.04% THD and IM dist.; phono overload 130 mV; phono RIAA deviation ± 0.5 dB; phono S/N 87 dB (A weighted); phono dynamic range 109 dB; high level frequency response 15-50,000 Hz ± 1 dB; 5³/₁₆" H x 16³/₁₆" W x 9⁹/₁₆" D \$225

NAD (USA)

3080 Stereo Integrated Amplifier

Power amp: features eight high-current output transistors; separate filtered and regulated power sup-



plies; 2-ohm load impedances; dual power output meter with 8/80 W meter switch; main/remote speaker switching; 90 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM dist.; slew rate 40 V/ μ sec; damping factor 120 at 8 ohms, 50 Hz; S/N 104 dB (A weighted); frequency response 5-50,000 Hz +0/-3 dB; input sensitivity/impedance 1.2 V/10k ohms. Preamp: features bass and treble controls with switchable turnover frequency selectors and tone defeat; infrasonic and high filters; two-way tape dubbing and monitoring; loudness, mono, and

muting switches; mic level control with jack; input selector; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/50k ohms (high level); phono overload 200 mV; frequency response ± 0.3 dB (phono RIAA), 20-20,000 Hz ± 0.5 dB (high level); THD 0.01%; S/N (A weighted) 82 dB at 10 mV (phono), 95 dB (mute off, high level). 5.5" H x 19.3" W x 14.2" D \$485
3060. Similar to 3080 without meter switching and mic level control; 60 W/ch continuous under same conditions; slew rate 30 V/ μ sec; damping factor 100; main amp input sensitivity/impedance 1.0 V/33k ohms; main amp S/N (A weighted) 103 dB; high-level input impedance 18k ohms; 5.5" H x 17.7" W x 14.2" D \$410
3045. Similar to 3060 minus bass and treble turnover frequency selectors and tone defeat; 45 W/ch continuous with 0.05% THD and IM dist.; slew rate 20 V/ μ sec; damping factor 75; main amp input sensitivity 0.85 V; S/N (A weighted) 101 dB (main amp), 92 dB (high level) \$315
3030. Similar to 3045 without two-way tape dubbing; 30 W/ch with 0.09% THD; slew rate 15 V/ μ sec; damping factor 50; phono overload 190 mV; THD 0.02%; S/N 80 dB at 10 mV (phono); high-level input impedance 50k ohms; 5.5" H x 15.4" W x 10.6" D \$230

3020 Stereo Integrated Amplifier

Power amp: features five-LED peak-reading display; 20 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; slew rate 15 V/ μ sec; damping factor 50 at 8 ohms. Preamp: features bass, treble, and balance controls; audio muting and loudness switches; input selectors; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/20k ohms (high level); phono overload 270 mV at 1000 Hz; frequency response ± 0.3 dB (phono RIAA), 20-20,000 Hz ± 0.5 dB; S/N (A weighted) 81 dB at 10 mV (phono), 96 dB (high level); 3.8" H x 16.5" W x 9.5" D \$175

NAIM by AUDIOPHILE SYSTEMS

NAP 110 Power/NAC 42 Pre-Amplifiers

Separate units sold as pair. Power amp: 40 W continuous into 8 ohms from 20-20,000 Hz with



0.02% THD and IM dist; frequency response 5-40,000 Hz ± 3 dB; transient capability 150 VA; 5" H x 8" W x 11" D. Preamp: features phono, tape, and tuner inputs, normal/mute/monitor switch, and balance control; input sensitivity 2.0 mV (phono), 75 mV (high level); frequency response 20-20,000 Hz ± 0.5 dB; THD and IM dist. 0.02%; phono overload 200 mV; 3" H x 8" W x 11" D \$1090

NIKKO

NA-890 Stereo Integrated Amplifier

Power amp: features fully complementary OCL circuitry; dual power meters with 5 W and 100 W meter range control; two-way speaker switching; 70 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist.; damping factor 60 at 8 ohms, 1000 Hz. Preamp: features discrete transistors in phono section; bass and treble controls with tone defeat; -20-dB audio muting and loudness switches; subsonic and high filter switches; two-way tape monitoring and dubbing; input selector; input sensitivity/impedance 2.3 mV/47k ohms (phono), 150 mV/50k ohms (aux., tuner, tape); frequency response ± 0.2 dB from 30-15,000 Hz (phono RIAA), 20-20,000 Hz

±0.2 dB (aux. and tape); S/N (IHF A) 85 dB (phono), 100 dB (aux., tuner, tape); 5 1/2" H × 16 1/2" W × 13 3/4" D..... \$350
NA-690. Similar to NA-890 without meter range selector, audio muting, and tone defeat switches; 45 W/ch under same conditions..... \$250
NA-590. Similar to NA-690 without dual power meters, speaker switching, two-way tape dubbing, and high filter switch; 35 W/ch continuous with 0.05% THD and IM dist.; frequency response ±1 dB from 30-15,000 Hz (phono RIAA), 10-50,000 Hz ±0.5 dB; S/N 80 dB (phono), 90 dB (aux., tuner, and tape); 3 3/8" H × 17 1/2" W × 14 1/8" D..... \$210

NA-790 Stereo Integrated Amplifier

Power amp: features low-distortion, low-noise circuitry; speaker protection system; 53 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist.; damping factor 60 into 8 ohms. Preamp: features built-in moving-coil head amp; subsonic filter; bass and treble controls; phono input sensitivity 2.3 mV/50k ohms; frequency response ±0.5 dB from 30-15,000 Hz (phono RIAA), 10-50,000 Hz ±0.5 dB (high level); phono S/N 82 dB; phono overload 200 mV at 1000 Hz; rack-mountable; 3 3/8" H × 16 1/2" W × 12 3/4" D..... \$280

ONKYO

A-7090 Stereo Integrated Amplifier

Power amp: features servo-controlled circuitry (servo loop functions as phase inversion and bass



amplification as well as negative feedback circuitry); all-stage direct-coupled OCL discrete circuitry; dual power supplies; electronic amp and speaker protection relays; dual eight-LED peak power bar display with center power LED and X0.01, X0.1, and X1 pushbutton range selector; 110 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.018% THD and IM dist.; frequency response 5-80,000 Hz ±1 dB; S/N 110 dB (IHF A); damping factor 50 into 8 ohms. Preamp: features built-in moving-coil head amp; bass and treble controls with separate turnover frequency controls and tone defeat; loudness and -20-dB muting; two-way speaker switching with A, B, and C speaker terminals; two-way tape dubbing and monitoring; low and high filter switch; mode selector; input sensitivity/impedance 2.5 mV/50k ohms (phono 1 and 2), 250 μV/40 ohms (phono MC), 150 mV/50k ohms (tuner, aux., tape); THD and IM dist. 0.01%; frequency response ±0.2 dB from 20-20,000 Hz (phono RIAA), 10-50,000 Hz +0/-1 dB (aux.); S/N (IHF A) 78 dB (phono MM), 68 dB (phono MC), 90 dB (aux.); phono overload 250 mV rms at 1000 Hz. Power and preamp separable through EPS front-panel switch; 6 1/8" H × 16 1/2" W × 16 3/4" D..... \$700

A-7070 Stereo Integrated Amplifier

Power amp: features servo-controlled circuitry; all-stage direct-coupled OCL circuitry; dual power supplies; electronic amp and speaker protector relays; dual eight-LED peak power bar display with center power LED and X0.1, X1 range selector; 70 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; frequency response 15-50,000 Hz ±1 dB; damping factor 50 into 8 ohms. Preamp: features bass and treble controls with separate tone defeat switches; low and high filters; mode, loudness, and -20-dB muting; two-way speaker switching; two-way tape monitoring and dubbing; input selector; input sensitivity/impedance 2.5 mV/50k ohms (phono 1- and

2), 150 mV/50k ohms (tuner, aux., tape); frequency response 20-20,000 Hz ±0.3 dB (RIAA phono); S/N (IHF A) 80 dB (phono), 90 dB (aux.); phono overload 200 mV rms at 1000 Hz. 4 13/16" H × 16 1/2" W × 15 3/8" D..... \$430

A-7040 Stereo Integrated Amplifier

Power amp: features servo-controlled circuitry; all-stage direct-coupled OCL circuitry; dual power supplies; speaker protection; dual five-LED peak power bar display with center power LED and X0.1, X1 range selector; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.026% THD and IM dist.; frequency response 15-50,000 Hz ±1 dB; damping factor 45 into 8 ohms. Preamp: features bass and treble controls; balance control; high cut filter; mode and loudness switches; two-way speaker switching; two tape monitor switches with one-way dubbing; input selector; input sensitivity/impedance 2.5 mV/50k ohms (phono 1 and 2), 150 mV/50k ohms (tuner and tape); phono frequency response ±0.5 dB from 20-20,000 Hz (RIAA); S/N (IHF A) 80 dB (phono), 90 dB (tuner); phono overload 170 mV rms at 1000 Hz; 4 13/16" H × 16 1/2" W × 15 3/8" D..... \$300

OPTONICA

SM-7305 Stereo Integrated Amplifier

Power amp: features dual-LED power output bar graph display; two-speaker switching; two-color LED protection indicator; 70 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.01% THD. Preamp: features bass and treble controls with variable tone defeat; balance control; 15 and 30 Hz subsonic and 8000 and 15,000 Hz high filter buttons; mono mode; two-way tape dubbing and monitoring; loudness and 20-dB muting; input selector with LEDs. S/N 80 dB (phono, low), 90 dB (phono, high), 100 dB (aux.); RIAA deviation ±0.3 dB from 20-20,000 Hz; phono overload 300 mV; ebony faceplate; 2.9" H × 16.9" W × 15" D..... \$460

SM-4305 Stereo Integrated Amplifier

Power amp: has two-way speaker switching; 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD. Preamp: features bass and treble controls; subsonic and high filter buttons; two-way tape dubbing and monitoring; mono mode switch; loudness and 20-dB muting; balance control; input selector with LEDs; S/N 75 dB (phono, low), 85 dB (phono, high), 90 dB (aux.); phono RIAA deviation ±0.4 dB from 20-20,000 Hz; phono overload 250 mV; ebony faceplate; 2.9" H × 16.9" W × 15" D..... \$300

SM-3201 Integrated Amplifier

40 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.19% THD; two output meters; two-way tape dubbing; mode selector switch; tone controls; negative feedback tone control amp; -20 dB audio muting; loudness contour; high and low filters; 41-position detent volume control; speaker selector A and A + B; headphone jack..... \$260
SM-3205. Same as SM-3201, except in ebony finish..... \$260

JC PENNEY

3865 Integrated Amplifier

Features separate left/right power meters; two deck provisions for tape dubbing; tape monitor switch; mode selector with speaker reverse; volume, balance, tone defeat, and loudness controls; switchable speaker selector; headphone jack; dual power supplies. 65 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD; IM dist. 0.02%; RIAA phono deviation ±0.5 dB from 20-20,000 Hz; S/N 86 dB; phono overload 360 mV; bass and treble control range ±9 dB. \$400

3845 Integrated Amplifier

Features separate left/right power meters; two deck provisions for tape dubbing; tape monitor switch; switchable speaker selector; volume, balance, and loudness controls; mode selector; headphone jack.

45 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.08% THD and IM dist.; S/N 75 dB; phono overload 170 mV; RIAA deviation ±0.3 dB from 20-20,000 Hz; bass and treble control range ±9 dB..... \$240

3835 Integrated Amplifier

Features separate left/right power meters; two deck provisions for tape dubbing; tape monitor switch; volume, balance, and loudness controls; headphone jack. 35 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.08% THD and IM dist.; S/N 75 dB; phono overload 170 mV; bass and treble tone control range ±8 dB; RIAA deviation ±0.5 dB from 20-20,000 Hz..... \$200

PHILIPS

AH388 Integrated Amplifier

Power amplifier: 80 W continuous into 8 ohms from 20-20,000 Hz with 0.05% THD; IM dist. 0.05% at



40 W. Preamplifier: input sensitivity 2.5 mV (phono 1, 2), 200 mV (aux., tuner, tape), 2.0 mV (mic); S/N 70 dB (phono 1, 2), 65 dB (mic), 85 dB (aux. and tuner); dist. 0.02% (equalizer). Features step detented volume control; center detented balance control; separate bass (±10 dB) and treble (±12 dB) controls; high and low filters (-6 dB/octave); tuner, phono 1 and 2, and aux. inputs; tape monitor; switchable six-speaker capability; headphone jack, mic jack and mixing; audio muting; illuminated power output meters; two ac receptacles. 5 1/2" H × 19" W × 14" D..... \$470

- AH3881.** Black chassis..... \$490
- AH386.** Similar to AH 388 except 60 W continuous; S/N 65 dB (phono 1, 2, and mic); bass and treble controls ±10 dB; switchable four-speaker capability..... \$360
- AH3861.** Black chassis..... \$380
- AH384.** Similar to AH386 except 40 W continuous; bass (±10 dB) and treble (±12 dB) controls; tape monitoring and dubbing; no mic jack and mixing..... \$330
- AH3841.** Black chassis..... \$350

PIONEER

SA-9800 Stereo Integrated Amplifier

Power amp section: features dual-LED peak power bar graph display with dim/bright meter switch; two-



speaker switching; 100 W/ch continuous, both channels driven into 8 ohms from 10-20,000 Hz with 0.005% THD. Preamp: features built-in moving-coil head amp; bass and treble controls with turnover frequencies and tone defeat; subsonic and high filters; balance control; loudness and audio muting switches; mode selector; two-way tape dubbing and monitoring; input selector with two cartridge capacitance load selectors. 6 1/8" H × 17 1/4" W × 16 3/4" D..... \$750

2

INTEGRATED AMPLIFIERS

SA-8800 Stereo Integrated Amplifier

Power amp: features dc circuitry in hybrid Class A/B configuration; non-switching output; dual power supplies; four ring emitter transistors/ch; dual-LED peak power bar graph display; two-speaker switching; 80 W/ch continuous, both channels driven into 8 ohms from 10-20,000 Hz with 0.005% THD and 0.002% IM dist.; frequency response 5-200,000 Hz +0/-2 dB; damping factor 55 from 20-20,000 Hz, 8 ohms; hum and noise -118 dB (short-circuited A); input sensitivity/impedance 1 V/50k ohms. Preamp: features dc flat amp and low-noise phono equalizer; bass and treble controls with tone defeat; subsonic and high filters; balance and mode switches; loudness and -20-dB muting; two-way tape dubbing and monitoring; input selector with two cartridge load capacitance selectors; input sensitivity/impedance 2.5 mV/50k ohms (phono 1 and 2), 150 mV/50k ohms (tuner, aux., tape); phono overload 250 mV; THD 0.006% from 10-50,000 Hz; frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 5-100,000 Hz +0/-1 dB (tuner, aux., tape); S/N (A, short-circuited) 90 dB (phono), 110 dB (tuner, aux., tape). Walnut-grain vinyl cabinet; 6 $\frac{1}{8}$ " H \times 17 $\frac{1}{16}$ " W \times 16 $\frac{3}{4}$ " D..... \$550

SA-7800. Similar to SA-8800 minus high filter and phono 2 input with cartridge capacitance selectors; 65 W/ch continuous with 0.009% THD and 0.003% IM dist.; phono overload 200 mV; phono S/N 87 dB (short-circuited, A); 6 $\frac{1}{8}$ " H \times 11 $\frac{1}{16}$ " W \times 14 $\frac{1}{16}$ " D..... \$450

SA-6800. Similar to SA-7800 minus non-switching output, muting, and mode switches; one-way tape dubbing; 45 W/ch continuous with 0.03% THD and IM dist.; damping factor 30 from 20-20,000 Hz; phono overload 180 mV; frequency response ± 0.3 dB from 30-15,000 Hz (phono RIAA), 10-50,000 Hz +0/-1.5 dB (tuner, aux., tape); S/N 78 dB (phono), 100 dB (tuner, aux., tape); 5 $\frac{1}{16}$ " H \times 17 $\frac{1}{16}$ " W \times 10 $\frac{1}{16}$ " D..... \$300

SA-5800. Similar to SA-6800 minus dc power circuitry and tone defeat; 25 W/ch under same conditions; phono input sensitivity/impedance 2.5 mV/47k ohms; phono overload 140 mV; frequency response ± 0.5 dB from 30-15,000 Hz (phono RIAA), 20-40,000 Hz ± 2 dB (tuner, aux., tape); S/N 76 dB (phono), 98 dB (tuner, aux., tape)..... \$200

ROGERS by REFERENCE

A75 Series 2 Stereo Integrated Amplifier

Power amp: features dc coupled circuitry; 45 W/ch continuous sine wave into 8 ohms from 30-30,000 Hz; THD 0.08% at 1000 Hz up to 40 W, 8-ohm load; damping factor 30 at 50 Hz, 10 W into 8 ohms. Preamp: features bass and treble controls; high- and low-pass filters; two-way tape dubbing and monitoring; input selector with LEDs; input sensitivity/impedance 2.7, 4, 63, 90 mV/47k ohms (phono), 180 mV/100k ohms (tuner, tape, aux.); frequency response ± 1 dB (phono RIAA), 25-20,000 Hz ± 1 dB (tuner, tape, aux.); S/N 70 dB (phono), 80 dB (high level). 4 $\frac{1}{2}$ " H \times 14 $\frac{1}{4}$ " W \times 11 $\frac{1}{4}$ " D..... \$530

ROTEL

RA-2040 Stereo Integrated Amplifier

Power amplifier: dc OTL complementary push-pull power circuitry; 120 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.01% THD and IM dist., 140 W/ch continuous into 4 ohms at 1000 Hz; frequency response 0-200,000 Hz ± 3 dB. Preamp: dc FET phono equalizer and RIAA equalization; S/N (IHF "A") 80 dB (phono), 100 dB (tuner and tape); input sensitivity/impedance 2 mV/50,000 ohms (phono 1 and

2), 0.1 mV/33 ohms (moving-coil phono), 150 mV/50,000 ohms (tuner, aux., tape), 980 mV/33,000 ohms (main in); 12 dB/octave subsonic filter at 15 Hz, 12 dB/octave supersonic filter at 24,000 Hz; phono overload 450 mV. Features stepped bass and treble controls with turnover switches; full tape dubbing; loudness switch; audio muting switch; peak LED bar-chart power indicators; additional capacitance and load impedance controls; two speaker pair connections; headphone jack. 5 $\frac{1}{8}$ " H \times 19" W \times 16 $\frac{1}{16}$ " D..... \$880

RA-2030. Similar to RA-2040 except 80 W/ch continuous into 8 ohms, 110 W/ch continuous into 4 ohms; frequency response 0-125,000 Hz; phono overload 300 mV. Features similar except includes moving-coil head amplifier..... \$680

RA-2020. Similar to RA-2030 except 60 W/ch continuous, both channels driven into 8 ohms, 85 W/ch into 4 ohms; THD and IM dist. 0.02%; frequency response 0-100,000 Hz ± 3 dB; S/N 75 dB (phono), 95 dB (tuner and tape); phono overload 200 mV. Features similar to RA-2030 less recording selector and capacitance and load impedance switches; 12 $\frac{1}{16}$ " D..... \$485

RA-1000 Stereo Integrated Amplifier

Power amp: features dc circuitry; two-speaker switching; 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD; frequency response 5-70,000 Hz +0/-1 dB. Preamp: features two-way tape dubbing and monitoring; phono selector for MM cartridges; subsonic filter; mode and loudness controls; -15-dB audio muting; input sensitivity/impedance 2.5 mV/50k ohms (phono), 150 mV/50k ohms (tuner and aux.); S/N 75 dB (phono), 85 dB (aux. and tuner). Equalizer: eight bands using OP amplifier; center frequencies set at 40, 100, 200, 400, 1000, 2500, 5000, and 10,000 Hz, ± 12 dB boost or cut; 3 $\frac{1}{16}$ " H \times 16 $\frac{1}{16}$ " W \times 11 $\frac{1}{16}$ " D..... \$360

SAE

2922 Integrated Amplifier

Combines SAE 2200 power amplifier and 2900 preamplifier with parametric equalizer; features tape/line filters and two-stage phono circuit... \$850

3022 Integrated Amplifier

Combines SAE 2200 power amplifier and 3000 preamplifier; features separate bass, midrange, and treble controls for each channel, tape/line filters, and two-stage phono circuit..... \$700

A14 Stereo Integrated Amplifier

Features LED power and tape output bar graph display; parametric equalization with tape EQ; moving-coil phono input; subsonic filter. 140 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD..... \$650

3031 Integrated Amplifier

Combines SAE 3100 power amp and 3000 preamp. Features three-band tone controls/ch, tape/line filters, and two-stage phono circuit..... \$550

A7 Stereo Integrated Amplifier

Features LED power output bar graph display; bass, midrange, and treble controls; external processor input; two-way tape dubbing and monitoring; subsonic filter. 70 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD..... \$400

C3A Integrated Amplifier

50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.05% THD; features full complementary circuitry, full tape copy capabilities, stepped volume, bass, and treble controls, dual power level indicators, subsonic filter, and muting switch..... \$325

SANSUI

AU-X1 DD/DC Integrated Amplifier

Features "Diamond Differential dc circuitry" in

phono equalizer and driver stage in power amp section; separate left/right power amp level controls; power amp operation control with ac/dc 1/dc 2/integrated settings; jump switch (bypasses 14-dB gain of preamp output section); switchable (-3 dB at 16 Hz) subsonic filter; input selector for phono 1 and 2 with moving magnet and moving-coil provision, tuner, and aux/tuner; two-way tape dubbing and monitoring; A and B speaker switching. Power amp: out-



put 160 W/ch continuous, both channels driven into 8 ohms from 5-20,000 Hz with 0.008% THD; frequency response 0-500,000 Hz; slew rate 260 V/ μ sec; rise time 0.5 μ sec. Phono preamp: frequency response ± 0.2 dB from 20-20,000 Hz (RIAA); S/N 91 dB (moving-magnet), 76 dB (moving-coil), 100 dB (aux.); phono overload 330 mV; matte black finish with rack-mounting..... \$1450

AU-919 DD/DC Integrated Amplifier

Features "Diamond Differential dc circuitry"; bass control with 150 and 300 Hz turnover frequency selectors, treble control with 3000 and 6000 Hz turnover frequency selectors; tone defeat; switchable subsonic filter; -20-dB muting; jump switch (bypasses 14-dB gain of preamp output); left/right balance control; A and B speaker switching; two-way tape dubbing and monitoring; input selector with LEDs for moving-magnet phono 2, moving-coil and moving-magnet phono 1 (switchable to built-in ICL dc pre-preamp), tuner, and aux. Power amp: 110 W/ch continuous, both channels driven into 8 ohms from 5-20,000 Hz with 0.008% THD; frequency response 0-500,000 Hz +0/-3 dB; slew rate 200 V/ μ sec; rise time 0.5 μ sec. Phono preamp: frequency response 20-20,000 Hz ± 0.2 dB (RIAA); overload 320 mV; S/N 90 dB (moving-magnet), -154 dB (moving-coil); matte black finish; detachable rack-mount adaptors..... \$800

AU-819. Similar to AU-919 without muting switch; has loudness compensation switch; power output 90 W/ch continuous, both channels driven into 8 ohms from 10-20,000 Hz with 0.008% THD; phono overload 350 mV..... \$700

AU-719. Similar to AU-819 minus phono 1 moving-coil input and jump switch; has -20-dB muting switch; power output 90 W/ch continuous, both channels driven into 8 ohms from 10-20,000 Hz with 0.015% THD; power amp frequency response 0-400,000 Hz +0/-3 dB; slew rate 170 V/ μ sec; phono overload 230 mV; S/N 88 dB (phono), 100 dB (aux.)..... \$575

AU-519. Similar to AU-719 minus muting switch and bass and treble turnover frequency selectors; built-in subsonic filter and loudness compensation have switch-selectable options; power output 70 W/ch continuous, both channels driven into 8 ohms from 10-20,000 Hz with 0.009% THD; slew rate 160 V/ μ sec; phono overload 300 mV..... \$500

AU-717 DC Integrated Amplifier

Power amp: features dc circuitry; left and right power supplies; dc voltage detection and overload current detection circuitry; A and B speaker switching; one-touch speaker terminal pushbutton; three ac outlets; output 85 W/ch continuous, both channels driven into 8 ohms from 10-20,000 Hz with 0.025% THD; IM dist. 0.01%; damping factor 60 into 8 ohms at 1000 Hz; slew rate 60 V/ μ sec; rise time 1.4 μ sec; frequency response 0-200,000 Hz +0/-3 dB. Preamp: features 16- and 10,000-Hz subsonic and high filters on 6/dB octave slope; attenuated volume control; -20-dB audio muting; two-deck tape facilities; speaker switching for two systems; loudness control; LED input selector for phono 1 and 2, tuner, and aux.; tone defeat switch; bass control with 200 and 400 Hz turnover frequency selector and treble control with 3000 and

6000 Hz turnover frequency selectors; frequency response 20-20,000 Hz ± 0.2 dB (phono RIAA); hum and noise -80 dB (phono 1 and 2), -100 dB (aux., tuner, tape); input sensitivity/impedance 2.5 mV/47k ohms (phono 1 and 2), 150 mV/47k ohms (aux., tuner, and tape); phono overload 350 mV rms (phono 1 and 2). Rear-panel switch for preamp/power amp separation; matte black finish; EIA rack-mount brackets; 6 $\frac{3}{8}$ " H \times 18 $\frac{1}{16}$ " W \times 16 $\frac{1}{2}$ " D (with rack mount)..... \$550

AU-417. Similar to AU-517 except power output 65 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD; phono overload 300 mV..... \$395

AU-317. Similar to AU-417 except power output 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD; power amp frequency response 0-200,000 Hz +0/-2.5 dB; slew rate 40 V/ μ sec; phono S/N 77 dB; phono overload 200 mV..... \$350

AU-217II Integrated Amplifier

Features bass, treble, and balance controls; high filter, loudness, and source/tape monitor switches; input selector for switchable subsonic filter, phono, tuner, and tape/aux. Power output: 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.06% THD. Preamp: frequency response ± 0.5 dB from 30-15,000 Hz (RIAA); phono sensitivity 2.5 mV; S/N, 76 dB (phono), 94 dB (aux.); phono overload 180 mV; matte black finish; rack mountable..... \$230

AU-117II. Similar to AU-217II without phono subsonic filter; power output 25 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.17% THD; phono overload 150 mV..... \$190

SANYO

PLUS A35 Integrated Amplifier

Power amp: features dc-coupled and two cascaded differential amplifier circuitry; dual 12-LED peak



power bar graph display with X0.1 and X1 display range selector; four-way output protection; two-way speaker switching; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; frequency response 7-100,000 Hz +0/-1 dB; S/N 110 dB (IHF A); damping factor 50; slew rate 90 V/ μ sec. Preamp: features Class A phono preamp circuitry with moving-coil cartridge capability; subsonic and high filters; bass and treble controls; loudness switch; two-way tape dubbing and monitoring; input selector buttons with LEDs; input sensitivity/impedance 2.5 mV/47k ohms (phono MM), 250 μ V/100 ohms (phono MC), 150 mV/47k ohms (aux. and tape); frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 20-20,000 Hz ± 0.5 dB (aux. and tape); S/N (IHF A) 85 dB (phono MM), 70 dB aux., tape, phono (MC); max. phono input 250 mV rms (MM), 25 mV rms (MC); includes rack-mount handles; 3 $\frac{1}{2}$ " H \times 19" W (with handles) \times 10 $\frac{3}{8}$ " D..... \$300

DCA611 Integrated Amplifier

60 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.08% THD; IM dist. 0.05%; frequency response 20-20,000 Hz +0/-1 dB (aux. and tape), RIAA phono deviation ± 0.5 dB from 30-15,000 Hz; phono sensitivity/overload 2.5/150 mV; aux. and tape sensitivity/impedance 150 mV/50,000 ohms; low (12 dB/octave at 30 Hz) and high (6 dB/octave at 7000 Hz) filters; tone control ± 10 dB at 100 and 10,000 Hz. Features separate midrange control ± 10 dB at 1000 Hz; two-deck tape monitoring and dubbing; front-panel record jack; two peak power meters; 41-step attenuator volume control; switchable (A, B or A+B) speaker selector switch. 5 $\frac{7}{8}$ " H \times 16 $\frac{1}{2}$ " W \times 13 $\frac{3}{4}$ " D..... \$270

DCA411. Similar to DCA611 except 45 W/ch; no midrange and low filter controls..... \$200

DCA311. Similar to DCA411 except 30 W/ch and less tape monitoring/dubbing facilities..... \$180

H.H. SCOTT

480A Stereo Integrated Amplifier

85 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM



dist; input sensitivity 2.5 mV (phono), switchable 2.5/5.0 mV (phono 2), 150 mV (high level); S/N (weighted, input shorted) 90 dB (phono), 95 dB (high level); RIAA equalization ± 0.5 dB from 20-20,000 Hz, high level at 1 W; phono overload switchable 180 and 360 mV; separate bass (± 10 dB at 100 Hz), midrange (± 6 dB at 1000 Hz), and treble (± 10 dB at 10,000 Hz) tone controls; high (12 dB/octave at 8000 Hz) and subsonic (12 dB/octave at 18 Hz) filters; channel separation 65 dB at 1000 Hz (phono), 75 dB at 1000 Hz (high level); crosstalk 80 dB at 1000 Hz; damping factor 100 at 1000 Hz into 8 ohms. Features two independent phono preamps, bimodal electro-sensor relay protection and delay circuit; linear to logarithmic op amp meter drive converters; 32-detent logarithmic dB-calibrated volume attenuator; variable impedance and capacitance selection; five-position mode switch; separate record and input selectors; accessory input switch; phono sensitivity switch; center detent balance control; dual range output power level meters calibrated in watts and dBW; two tape monitors with full tape copy; switchable speaker selector; 5 $\frac{1}{4}$ " H \times 17" W \times 14 $\frac{1}{4}$ " D..... \$500

460A. Similar to 480A except 70 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist. Features similar but no variable impedance/capacitance selection and no accessory input switch..... \$430

440A. Similar to 460A except 55 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist.; S/N (weighted, input shorted) 85 dB (phono), 90 dB (high level); phono overload 180 mV; channel separation 60 dB (phono), 70 dB (high level); no subsonic filter. Features similar except two-position mode selector and no record and input selectors; 5 $\frac{1}{4}$ " H \times 17" W \times 11 $\frac{3}{4}$ " D..... \$350

420A. Similar to 440A except 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.08% THD and IM dist.; S/N (weighted, input shorted) 80 dB (phono), 85 dB (high level); high-level frequency response 20-20,000 Hz ± 1 dB; channel separation at 1000 Hz 55 dB (phono), 60 dB (high level); damping factor 60 at 1000 Hz into 8 ohms. Features similar but no midrange control and no high and subsonic filters..... \$250

SERIES 20

A-27 Stereo Integrated Amplifier

Power amp: features class AB circuitry; two-speaker switching; 120 W/ch continuous, both channels driven into 8 ohms from 5-30,000 Hz with 0.015% THD and 0.006% IM dist.; frequency response 5-200,000 Hz +0/-1 dB; damping factor 60 from 5-30,000 Hz, 8 ohms; hum and noise -120 dB (IHF A); input sensitivity/impedance 1 V/50k ohms. Preamp: features built-in moving-coil head amp; separate 50 and 100 Hz bass and 10,000 and 20,000 Hz treble controls with tone defeat; low filter; two-way tape dubbing and monitoring; phono capacitance/resistance selectors; -20-dB audio muting; input selector with LEDs and separate MM/MC phono selector; input sensitivity/impedance 2.5 mV/100, 10k, 25k, 50k, and 100k ohms switchable (phono MM), 250 μ V/100 ohms (MC), 150 mV/50k ohms (tuner, aux., tape); phono overload 300

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mV (MM), 30 mV (MC); frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 8-100,000 Hz +0/-1 dB (tuner, aux., tape); S/N (IHF A) 90 dB (phono MM), 78 dB (MC), 100 dB (tuner, aux., tape); 6 $\frac{3}{8}$ " H \times 17 $\frac{7}{8}$ " W \times 18 $\frac{1}{16}$ " D..... \$1300

SHARP

SM-1122 Integrated Amplifier

OTL dc stereo integrated amplifier. 15 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.8% THD; IM dist. 0.3% at rated power; damping factor 40 at 8 ohms, 1000 Hz; input sensitivity/impedance 3.0 mV/40,000 ohms (phono), 150 mV/40,000 ohms (tuner and aux.), 290 mV/40,000 ohms (tape), 2.5 mV/600 ohms (mic); output level 150 mV (tape), 95 mV (mic out); frequency response 15-70,000 Hz ± 3 dB (tape, tuner, aux.), RIAA phono deviation +0.5/-0.5 dB from 20-20,000 Hz. Features 41-step calibrated volume control, LED indicators for all functions, switchable loudness control, front-panel stereo headphone input, front-panel mic input with mic mixing level control, A, B/ A+B speaker selector switch, pushbutton function switches, and fader control. 5 $\frac{3}{8}$ " H \times 15 $\frac{3}{8}$ " W \times 10 $\frac{1}{8}$ " D..... \$270

SM-1144. Similar to SM-1122 except 22 W/ch continuous with 0.4% THD; has two tape monitor switches with one-way dubbing and rumble filter; RIAA phono deviation ± 1.0 dB; phono overload 200 mV..... \$350

MCR-1800. Audio component rack in wood vinyl finish; 39 $\frac{3}{8}$ " H \times 17" W \times 15" D..... \$70

SHERWOOD

S-702 CP Stereo Integrated Amplifier

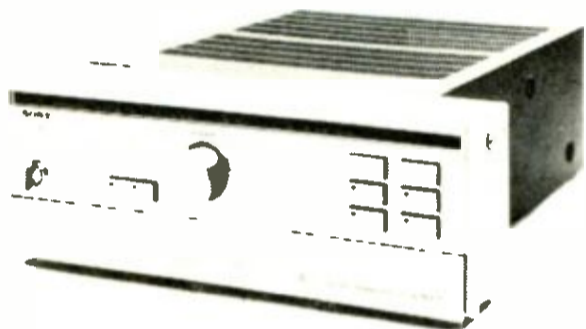
Power amp: features three separate circuits for protection of speakers and amplifier; two-speaker switching; 60 W/ch continuous, both channels dri-

ven into 8 ohms from 20-20,000 Hz with 0.2% THD and IM dist.; frequency response 5-110,000 Hz ± 1 dB; S/N 105 dB (IHF A weighted); damping factor 30:1 at 8 ohms; input sensitivity/impedance 1.0 V/50k ohms. Preamp: features bass and treble controls with tone defeat; subsonic and high filters; loudness and mode switches; two-way tape dubbing and monitoring; mic mixing; input selector; input sensitivity/impedance 2.5 mV/47k ohms (phono), 160 mV/50k ohms (aux. and tape); phono overload 200 mV at 1000 Hz; S/N (IHF A) 80 dB (phono), 95 dB (aux.), 80 dB (mic); frequency response ± 0.5 dB (phono RIAA), 20-20,000 Hz ± 0.5 dB. 5 $\frac{1}{2}$ " H \times 17 $\frac{1}{4}$ " W \times 12 $\frac{3}{4}$ " D..... \$350
S-402 CP. Similar to S-702 CP minus subsonic filter and tone defeat; 35 W/ch continuous under same conditions; S/N (IHF A) 100 dB (main amp), 90 dB (aux.) \$250

SONY

TA-F70 Stereo Integrated Amplifier

Power amp section: features direct-coupled dc circuitry; pulse power supply; Thermo-Dynamic cool-



ing system; 20-LED peak power bar display (from 0.01-130 W); connections for two pairs of speaker systems; 90 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.007% THD and IM dist.; frequency response 0-100,000 Hz $+0/-1$ dB; damping factor 100 at 8 ohms, 1000 Hz. Preamp: features low-noise transistor that provides for phono moving-coil cartridge; bass and treble controls with electronic tone defeat; switchable subsonic filter; two tape monitors with two-way tape dubbing; signal processing bypass selector; LED input and tape monitor selectors; input sensitivity/impedance 2.5 mV/50k ohms (phono MM), 0.125 mV/33 or 100 ohms (phono MC), 150 mV/50k ohms (tuner, aux., tape); max. phono input 300 mV (MM), 15 mV (MC); phono RIAA ± 0.2 dB; S/N (IHF A) 88 dB (MM), 78 dB (MC), 105 dB (tuner, aux., tape); 6 $\frac{3}{4}$ " H \times 17" W \times 16 $\frac{3}{4}$ " D \$725

TA-F6B Stereo Integrated Amplifier

Power amp: features direct-coupled dc circuitry; pulse locked power supply; dual power output meters; two-way speaker switching; 100 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM dist.; frequency response 0-100,000 Hz $+0/-1$ dB; damping factor 50 at 8 ohms; S/N 115 dB (A weighted). Preamp: features direct-coupled phono EQ amplifier and moving-coil preamp; bass and treble controls with tone defeat; low and high filter switches; -20 dB muting; two-way tape dubbing and monitoring; mode switch; input sensitivity/impedance 2.5 mV/50k ohms (phono 1 and 2), 0.08 mV/100 ohms (head amp), 150 mV/150k ohms (tuner, aux., tape); max. input 250 mV (phono 1 and 2), 8 mV (head amp); frequency response ± 0.2 dB (phono RIAA), 2-150,000 Hz $+0/-1$ dB (tuner, aux., tape); THD and IM dist. 0.003%; S/N (A weighted) 85 dB (phono 1, 2), 70 dB (head amp), 105 dB (tuner, aux., tape); 6 $\frac{1}{4}$ " H \times 16 $\frac{3}{4}$ " W \times 15 $\frac{3}{4}$ " D \$610

TA-F60 Stereo Integrated Amplifier

Power amp: features pulse power supply; Thermo-

Dynamic cooling system; dual 13-LED peak power level display; two-way speaker switching; 75 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.01% THD and IM dist.; frequency response 3-70,000 Hz $+0/-1$ dB; damping factor 40 at 8 ohms, 1000 Hz. Preamp: features low-noise transistor for moving-coil cartridge, bass and treble controls with tone defeat; switchable subsonic filter; two-way tape dubbing with monitor switch; input selectors with LED indicators; input sensitivity/impedance 2.5 mV/50k ohms (MM), 0.25 mV/100 ohms (MC), 150 mV/50k ohms (tuner, aux., tape); max. phono input 250 mV (MM), 25 mV (MC); phono RIAA equalization ± 0.2 dB; S/N (IHF A) 88 dB (MM), 75 dB (MC), 100 dB (tuner, aux., tape); 6 $\frac{3}{4}$ " H \times 17" W \times 13 $\frac{3}{4}$ " D \$450

TA-F40. Similar to TA-F60 minus subsonic filter, two-way tape dubbing, and mono/stereo mode switch; has dual six-LED peak power level indicators and tape monitor switch; 50 W/ch under same conditions; power amp frequency response 5-70,000 Hz $+0/-1$ dB; damping factor 50; 3 $\frac{1}{4}$ " H \times 17" W \times 13 $\frac{1}{4}$ " D \$350

TA-F30 Integrated Amplifier

Features electronic tone defeat and LED power output indicators; 30 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD; S/N 86 dB (phono); frequency response 5-60,000 Hz $+0/-2$ dB; 3 $\frac{1}{4}$ " H \times 17" W \times 13 $\frac{1}{4}$ " D \$260

Precise Series

TA-P7F Mini Stereo Integrated Amplifier

Power amp: features pulse power supply; Thermo-Dynamic cooling system; LED peak power indicators; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.01% THD and IM dist.; frequency response 5-60,000 Hz $+0/-1$ dB; damping factor 35 at 8 ohms, 1000 Hz. Preamp: features built-in moving coil capability through low-noise transistor; bass and treble controls with electronic tone defeat, acoustic compensator with two-position bass boost and loudness, balance, switchable subsonic filter, and MM/MC cartridge selector located behind removable front panel; input selectors with LEDs; input sensitivity/impedance 2.5 mV/50k ohms (phono MM), 0.25 mV/100 (phono MC), 150 mV/50k ohms (tuner, aux., tape); max. input 120 mV (MM), 12 mV (MC); phono RIAA ± 0.2 dB; S/N (IHF A) 88 dB (MM), 75 dB (MC), 100 dB (tuner, aux., tape); complements miniature Precise Series ST-P7J tuner and PS-P7X turntable; 3 $\frac{1}{4}$ " H \times 8 $\frac{1}{2}$ " W \times 13" D \$500

STUDER/REVOX

B750 Integrated Amplifier

Fully complementary integrated stereo amplifier with equalizer connections and tape copy circuitry.



Amplifier: 80 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz ± 0.5 dB with 0.2% THD; damping factor better than 75 dB at 8 ohms; input sensitivity/impedance 1 V/10,000 ohms; phono overload 400 mV, 9 V (tuner, aux., tape 1 and 2). Preamplifier: input sensitivity/impedance 200 mV/100,000 ohms (tuner, aux., tape 1 and 2), 5 mV/25,000, 50,000, 100,000 ohms (phono 1), 5 mV/50,000 ohms (phono 2); output/load impedance 6.5 mV/10,000 ohms (tape 2 out), 15.5 V/4 ohms (speaker A and B), 200 mV/50,000 ohms (tape 1 and 2), 1 V/10,000 ohms (pre out), 15.5 V/100 ohms (phone 1 and 2); S/N 90 dB unweighted (tuner, aux., tape 1 and 2), 70 dB unweighted (phono 1 and 2); channel separation at 1000 Hz better than 60 dB; RIAA phono equalization ± 0.5 dB from 20-20,000 Hz. Features sepa-

rate bass, treble, and presence controls (± 8 dB in 2-dB steps) with tone defeat switch; 20-dB front-panel level pad; high (12 dB/octave at 8000 Hz) and low (12 dB/octave at 50 Hz) filters; calibrated balance control; two-deck capability with tape copy function; switchable A/B and A+B speaker selector; preamp out and power amp in accessible for out-board equalizer or other accessory; two headphone jacks. 6" H \times 17 $\frac{1}{4}$ " W \times 13 $\frac{3}{4}$ " D \$999

TECHNICS

SU-8099 Stereo Integrated Amplifier

Power amp: features dc circuitry; fluorescent peak-reading power display with range selector and LED dimmer; 115 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.007% THD. Preamp: features built-in moving-coil head amp; tape/source monitor switch with two-way tape dubbing; bass and treble controls with turnover frequencies; subsonic filter; S/N 102 dB at 10 mV in (phono) \$1000

SU-8088 Stereo Integrated Amplifier

Power amp section: features dc circuitry and fluorescent peak-reading power meter display with range selector and dimmer control; 80 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.01% THD. Preamp: features built-in moving-coil head amp; bass and treble controls with turnover frequency selectors; subsonic filter; tape/source monitor switch with two-way tape dubbing; S/N 102 dB at 10 mV in (phono) \$600

SU-8077 Stereo Integrated Amplifier

Power amp: features dc circuitry and fluorescent peak-reading power meter display with range selector and LED dimmer; 60 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.02% THD. Preamp: features built-in moving coil head amp; tape/source monitor switch with two-way tape dubbing; subsonic filter; S/N 100 dB at 10 mV (phono) \$450

SU-8055 Stereo Integrated Amplifier

Power amp: features dc circuitry and fluorescent peak-reading power meter display with range selector and LED dimmer; 47 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.02% THD. Preamp: features three-stage dc phono equalizer; tape/source monitor switch with two-way tape dubbing; subsonic filter; accommodates moving-coil cartridges; S/N 98 dB at 10 mV in (phono) \$300

SU-8044 Stereo Integrated Amplifier

Power amp: features dc circuitry and fluorescent peak-reading power meter display with range selector; 38 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.02% THD. Preamp: features three-stage dc phono equalizer; tape/source monitor switch with two-way tape dubbing; S/N 94 dB at 10 mV in (phono) \$260

SU-8011 Stereo Integrated Amplifier

Power amp: features dc circuitry; power supply with floating-coil transformer; LED peak-power meter indicators with range selector; main/remote speaker switches; 25 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.08% THD. Preamp: features three-stage direct-coupled phono equalizer; bass and treble controls; source/tape monitor switch; loudness switch; input selector; S/N 80 dB at 2.5 mV in (phono); pearl-gray metal cabinet \$175

TOSHIBA

SB-420 Integrated Amplifier

42 W/ch continuous, both channels driven into 8 ohms over 20-20,000 Hz with 0.3% THD; IM dist. 0.3%; damping factor 25; frequency response 10-80,000 Hz $+0/-1$ dB; power bandwidth 5-40,000 Hz, both channels driven, at 0.3% THD. Preamp: input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/47k ohms (aux., tape, tuner), 4 mV/20k ohms (mic), 1 V/47k ohms (main in); output 150 mV (tape), 1.0 V (preamp out); S/N (IHF "A") 80 dB (phono at 10 mV), 90 dB (aux.);

frequency response 30-15,000 \pm 0.3 dB (phono), 10-50,000 Hz +0/-1 dB (aux., tape); phono overload 350mV. Features all stage direct-coupled OCL circuitry and push-pull type symmetrical complementary circuitry; attenuator type volume control; two-step audio muting; two tape monitors; two phono inputs; two-step turnover switches with tone defeat; mike mixing with independent volume control; 5 $\frac{1}{2}$ " H \times 17 $\frac{1}{16}$ " W \times 14 $\frac{1}{8}$ " D..... \$230

YAMAHA

CA-2010 Integrated Amplifier

Amplifier section switchable between classes A and B; 120 W/ch continuous (class B), 30 W/ch continuous (class A) into 8 ohms with 0.03% THD; preamp section incorporates equalizer amp with 96 dB S/N (IHF A); moving-coil amp has 71 dB S/N (IHF A) and 50 μ V input sensitivity; tone control amp has tone, filter, and buffer amps; two-ganged volume controls for each channel (one each on input/output); peak level output meters have -50 to +5 dB range and may be switched to read rec. out terminal output; selectable phono impedance (47,000, 68,000, and 100,000 ohms); switching for independent use of preamp and power sections; audio muting switch..... \$800

CA-1010 Integrated Amplifier

Fully complementary OCL power amp section switchable between classes A and B; 90 W/ch (class B), 18 W/ch (class A). Preamp section has 96 dB S/N (IHF A) and input sensitivity of 10 mV; dist. 0.003% (phono to rec. out); 310 mV dynamic margin for phono input; moving-coil head amp has 68 dB S/N (IHF A) and 50 μ V input sensitivity; tone control amp has tone, filter, and buffer amp; two-ganged volume control for each channel; peak level meters have a range of -50 to +5 dB and may be switched to read rec. out terminal output; three input impedances for MM cartridges (47,000, 68,000, and 100,000 ohms); switching for independent use of preamp and power amp sections; audio muting switch..... \$670

A-1 Integrated Amplifier

DC integrated amplifier with built-in head amplifier for moving coil cartridges. Power amplifier: 70 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.02% THD; THD 0.005% max.; IM dist. 0.003% max.; power bandwidth 10-50,000 Hz; frequency response 20-20,000 Hz +0/-0.2 dB; damping factor over 100 at 8 ohms, 1000 Hz. Preamplifier: input sensitivity/impedance 2.5 mV/47k ohms/200 pF (phono moving magnet), 60 μ V/10 ohms (phono moving cartridge), 200 mV/47k ohms (tuner, aux., tape); max. input level 230 mV rms (moving magnet), 6 mV rms (moving coil); S/N at 10 mV ref. level better than 97 dB (phono moving magnet), better than 82 dB (phono moving coil), 112 dB min. (tuner, aux., tape); output sensitivity/impedance 200 mV/600 ohms (record playback), 2 V/600 ohms (preamp out); RIAA deviation 0/ \pm 0.2 dB, 20-20,000 Hz +0/-0.2 dB (tuner, aux.); channel separation at 1000 Hz 70 dB min. at 5.1-ohm input (tuner), 75 dB min. at 5100-ohm input (phono moving magnet), 75 dB min. (phono moving coil, input shorted); headphone output 39 mV (8 ohms, rated output). Features FET input circuitry employed in power amplifier, tone control and equalizer; dual power meters; separate rec. out and input selectors; variable loudness controls; and high filter and power amp direct switches. 4 $\frac{3}{8}$ " H \times 17 $\frac{1}{16}$ " W \times 15" D..... \$630

CA-810 Integrated Amplifier

65 W/ch continuous over 20-20,000 Hz with 0.05% dist.; preamp dist. 0.005%; S/N 83 dB (IHF A); input sensitivity 2.5 mV; moving-coil head amp has 73 dB S/N and 60 μ V input sensitivity; has negative feedback tone controls with individual defeat controls for bass and treble; power output meters cover 0.5 mW to 158 W; phono impedance selectable (47,000, 68,000, 100,000 ohms); rec. out selector switch..... \$430

CA-610II Stereo Integrated Amplifier

Power amplifier: 45 W/ch continuous into 8 ohms

from 20-20,000 Hz at 0.05% THD, 50 W/ch continuous into 4 ohms from 20-20,000 Hz at 0.1% THD; THD and IM dist. 0.02% with 8-ohm load; damping factor 50 into 8 ohms at 1000 Hz. Preamplifier: input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/47k ohms (tuner, aux., tape PB); max. input level 150 mV at 1000 Hz (phono); S/N 97 dB for 10 mV, shorted (phono), 100 dB (tuner, aux., tape PB); output sensitivity/impedance 150 mV/600 ohms (rec. out); RIAA deviation +0.3/-0.3 dB from 30-15,000 Hz, 10-100,000 Hz +2/-2 dB (tuner, aux., tape PB); high filter rolloff -6 dB/octave at 10,000 Hz. Features main direct switch to bypass tone-control amp; dual power meters; input and rec. out selectors; variable loudness contour; master volume control; two front-panel speaker connectors; stereo headphone jack; and three rear ac outlets. 6 $\frac{1}{2}$ " H \times 17 $\frac{1}{16}$ " W \times 13 $\frac{1}{16}$ " D..... \$300

CA-410 II Integrated Amplifier

35 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.05% THD, 40 W continuous, both channels driven into 4 ohms from 20-20,000 Hz at 0.1% THD; input sensitivity/impedance 3.0 mV/47k ohms (phono), 150 mV/47k ohms (tuner, aux., tape playback); max. input level 135 mV at 1000 Hz, 0.05% THD (phono); RIAA deviation +0.3/-0.3 dB from 30-15,000 Hz, +0.5/-0.5 dB (tuner, aux., tape); S/N (IHF "A") 95.4 dB shorted (phono), 100 dB (tuner, aux., tape playback), dist. 0.1% from 20-20,000 Hz at 1 V out (phono), 0.02% into 8 ohms at 17.5 W (tuner, aux., tape playback); subsonic filter rolloff -12 dB/octave at 12 Hz, high filter rolloff -6 dB/octave at 8000 Hz. Features power output meters, separate input and record out selectors, variable loudness controls, and speaker selector buttons; 5 $\frac{1}{2}$ " H \times 17 $\frac{1}{16}$ " W \times 13 $\frac{1}{16}$ " D..... \$250

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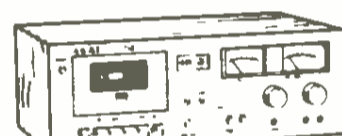
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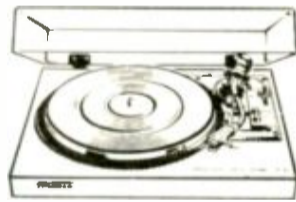
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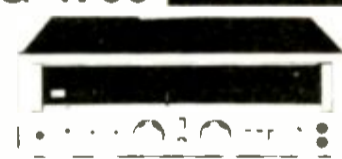
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